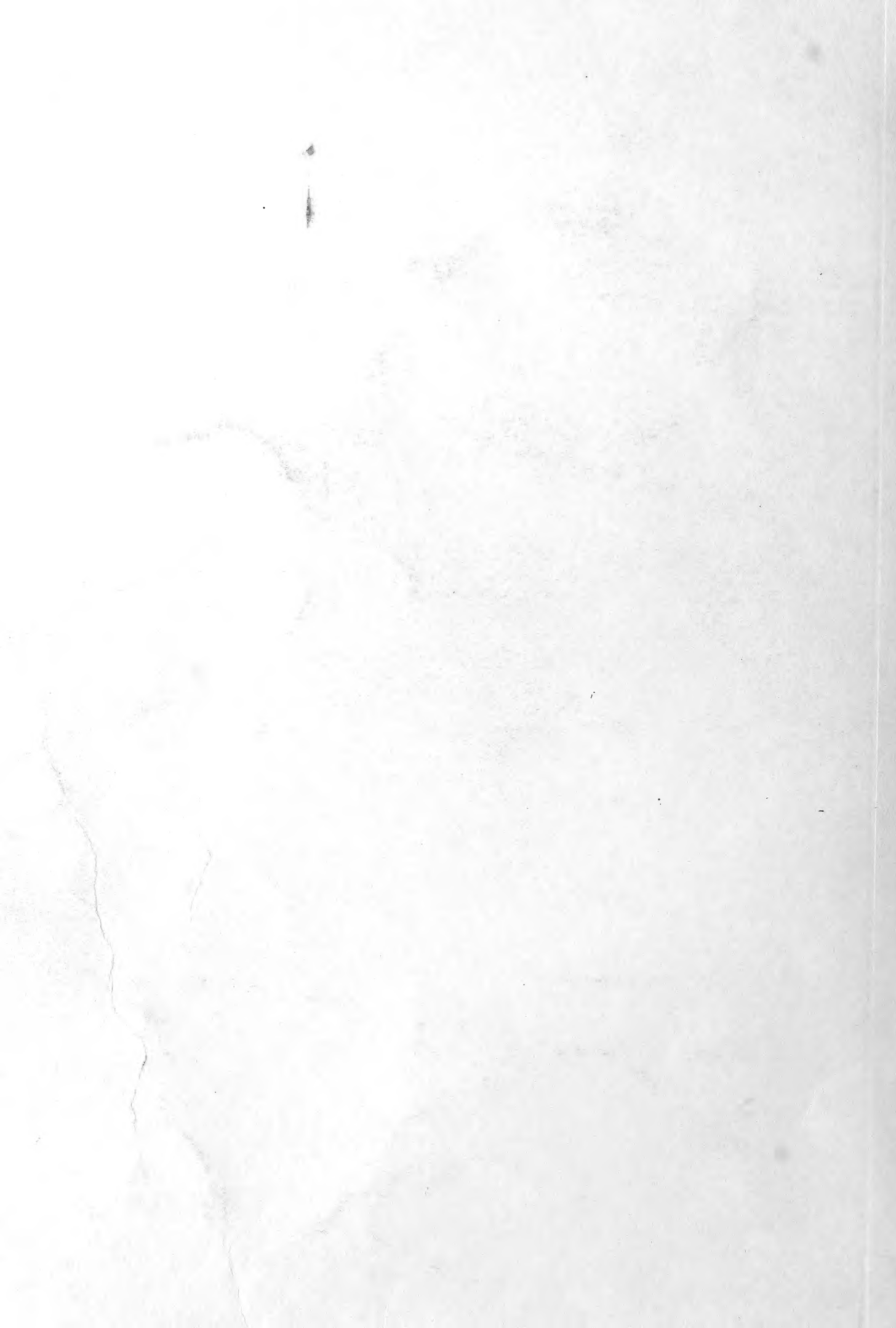


Historic, archived document

Do not assume content reflects current
scientific knowledge, policies, or practices.



1911

JAN 6 1911

LIBRARY
U.S. DEPT. OF AGRICULTURE

Griffith AND Turner Co.

ESTABLISHED
1860
CATALOGUE
No. 24

FARM AND

GARDEN

SUPPLIES

GENERAL OFFICES, 205, 207, 209, 213 & 215 N. PACA ST.

BRANCH HOUSE, 366 N. GAY ST.

BALTIMORE, MD.

Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. **SEND FOR PRICES.**

FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and ½ bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.

HOW TO REMIT.—Remittances should be made by Draft, Express Money Order, P. O. Money Order or Registered Letter.

WE PAY THE POSTAGE TO ANY POST OFFICE IN THE UNITED STATES ON ALL VEGETABLES AND FLOWER SEEDS by the Packet, Ounce or Quarter Pound. On quantities over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Prices to pay postage.

ON EVERY ORDER be sure to sign your name and give your address plainly, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners, and all purchasers of Seeds in large quantities, should submit us a list of their wants and we will name them special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS.—From 1st of May till August.

BEEFS.—Soon as ground can be worked in spring.

CABBAGE.—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT.—For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY.—Sow as soon as ground is open in spring, and transplant in July.

CUCUMBER.—Sow about 1st of May for early, and for pickling, in July.

LETTUCE.—Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS.—Sow in May and June.

ONION.—Sow early as possible in spring.

PARSNIP.—Soon as ground can be worked.

PEAS.—Sow in March, and at intervals through the season, as desired.

PUMPKIN.—Plant in May or June.

RADISH.—Soon as ground is ready, and all through the season, at intervals.

SQUASH.—Soon as ground is warm.

TOMATO.—Sow in hot bed in March, and transplant about middle of May.

TURNIP.—For early use, in April: for main crop, July and August.

CABBAGE.—1 oz. of Seed will produce.....2000 plants.

CAULIFLOWER.—1 oz. of Seed will produce.....2000 "

CELERY.—1 oz. of Seed will produce.....3000 "

EGG PLANT.—1 oz. of Seed will produce.....1000 "

LETTUCE.—1 oz. of Seed will produce.....3000 "

PEPPER.—1 oz. of Seed will produce.....1000 "

TOMATO.—1 oz. of Seed will produce.....1500 "

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates. Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

3 feet each way.....	4840	20 feet each way.....	108
4 " " ".....	2722	25 " " ".....	69
5 " " ".....	1742	30 " " ".....	48
6 " " ".....	1210	35 " " ".....	40
8 " " ".....	680	40 " " ".....	38
10 " " ".....	435	45 " " ".....	27
12 " " ".....	302	50 " " ".....	21
15 " " ".....	193		
18 " " ".....	134		

DISTANCE FOR PLANTING.

Std. Apple.....	33 to 40 feet each way.
Std. Pear and large-growing Cherry.....	20 " " "
Duke and Morello Cherry.....	20 " " "
Std. Plum, Apricot and Nectarine.....	15 to 20 " " "
Peach.....	20 " " "
Quince.....	12 " " "
Dwarf Pear.....	10 " " "
Currant, Gooseberry, Raspberry and Blackberry.....	4 to 5 " " "
Grapes.....	6 to 10 " " "

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.	Pounds per Acre.
14 lbs. Kentucky Blue.....	28 lbs.
10 " Red Top, chaff.....	30 to 40 "
10 " Red Top, un-hulled.....	15 to 30 "
32 " Red Top, fancy.....	20 to 25 "
14 " Orchard Grass.....	42 "
34 " English Rye or Perennial Rye.....	60 "
22 " Italian Rye.....	50 "
14 " Meadow Fescue.....	50 "
14 " Tall Meadow Fescue.....	50 "
12 " Sheep Fescue.....	30 "
7 " Meadow Foxtail.....	30 "
21 " Crested Dog's Tail.....	25 "
14 " Awlness Brome.....	35 to 40 "
14 " Wood Meadow.....	30 "
30 " Creeping Bent.....	50 "
10 " Tall Meadow Oat.....	50 "
45 " Timothy, alone.....	½ bus.
..... with other grasses.....	8 to 10 lbs.
60 " Alsike, alone.....	6 "
60 " Alfalfa or Lucerne.....	20 "
60 " White Clover, alone.....	6 "
..... White Clover, with other grasses.....	3 "
30 " Evergreen Lawn.....	3 to 4 bus.
60 " Crimson Clover.....	15 to 20 lbs.
50 " German Millet.....	50 "
48 " Hungarian Millet.....	48 "
60 " Red Clover.....	15 "
..... Together for an acre.....	
..... Red Clover.....	8 "
..... Timothy.....	10 "
..... Red Top.....	14 "
80 " Wheat, broadcast.....	1½ to 2 bus.
..... Wheat, in drills.....	1½ to 2 "
56 " Rye, broadcast.....	1 " "
32 " Oats, broadcast.....	2 to 2½ "
48 " Sorghum, drills.....	4 qts.
..... Sorghum, broadcast.....	8 "
56 " Flax, for seed.....	1 bus.
..... Flax, for fibre.....	2 to 3 "

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—Continued.

Weight per Bushel.	Pounds per Acre.
56 lbs. Field Corn, in hills.....	8 qts.
56 " Corn, for soiling.....	1 to 2 bus.
60 " Vetches, broadcast.....	2 to 3 "
48 " Barley, broadcast.....	2 "
..... Broom Corn, in hills.....	6 to 8 qts.
48 " Buckwheat, broadcast.....	1 bus.
44 " Teosinte, in hills.....	1 to 3 lbs.
..... Hemp.....	22 "

VEGETABLE SEED TABLE

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus.....	5 lbs.
Beans, dwarf in drills.....	1 to 1½ "
Beans, pole, in hills.....	8 to 10 qts.
Beet, in drills.....	4 to 6 lbs.
Cabbage, in beds, to transplant.....	¼ lb.
Carrot, in drills.....	2 to 3 lbs.
Celery, to transplant.....	½ lb.
Corn, in hills (sugar).....	8 qts.
Kale.....	4 to 6 lbs.
Melon, musk.....	1½ to 2 "
Melon, water.....	2 to 3 lbs.
Mustard, broadcast.....	12 to 16 lbs.
Mangelwurzel.....	4 to 6 lbs.
Onions, in drills to make large onions.....	6 to 8 "
Onion Seeds, for small sets.....	40 to 60 "
Parsnips, in drills.....	4 to 6 "
Peas, early, in drills.....	1 bus.
Peas, Marrowfat, in drills.....	134 "
Peas, broadcast.....	2 to 3 "
Potato, cut tubers, in drills.....	8 "
Radish, in drills.....	6 to 8 lbs.
Radish, broadcast.....	10 "
Salsify, in drills.....	6 to 8 "
Spinach, in drills.....	12 to 15 "
Squash, bush varieties, in hills.....	4 to 6 "
Squash, running varieties, in hills.....	3 to 4 "
Turnip, in drills.....	1 lb.
Turnip, broadcast.....	2 to 3 lbs.
Tomato, to Transplant.....	¼ lb.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus.....	1 oz. to 50 ft. drill
Beet.....	1 oz. to 50 ft. drill
Celery.....	1 oz. to 100 ft. drill
Carrot.....	1 oz. to 100 ft. drill
Endive.....	1 oz. to 150 ft. drill
Egg Plant.....	1 oz. to 300 ft. drill
Lettuce.....	1 oz. to 150 ft. drill
Okra.....	4 oz. to 150 ft. drill
Onion.....	1 oz. to 100 ft. drill
Onion Sets, small.....	1 qt. to 100 ft. drill
Parsley.....	1 oz. to 150 ft. drill
Parsnip.....	3 oz. to 100 ft. drill
Radish.....	2 oz. to 100 ft. drill
Salsify.....	1 oz. to 70 ft. drill
Spinach.....	2 oz. to 100 ft. drill
Turnip.....	1 oz. to 150 ft. drill
Peas.....	1 qt. to 100 ft. drill
Dwarf Beans.....	1 qt. to 100 ft. drill
Leek.....	1 oz. to 100 ft. drill
Pole Beans.....	1 qt. to 150 lbs.
Corn.....	1 qt. to 200 hills
Cucumber.....	1 oz. to 50 hills
Watermelon.....	1 oz. to 30 hills
Muskmelon.....	1 oz. to 60 hills
Pumpkin.....	1 oz. to 40 hills
Early Squash.....	1 oz. to 50 hills
Marrow Squash.....	1 oz. to 16 hills
Cabbage.....	1 oz. seed will produce 2000 plants
Caullif'r.....	1 oz. seed will produce 2000 plants
Celery.....	1 oz. seed will produce 3000 plants
Egg Plant.....	1 oz. seed will produce 1000 plants
Lettuce.....	1 oz. seed will produce 3000 plants
Pepper.....	1 oz. seed will produce 1000 plants
Tomato.....	1 oz. seed will produce 1500 plants

Griffith & Turner Co.'s

ANNUAL CATALOGUE ~ 1911

BEST GOODS LOW PRICES

OUR SEEDS are the **BEST** that can be obtained anywhere, because we are as careful in our selection as it is possible for any one to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are **ALL TESTED** thoroughly before being placed on the market.

HOW TO ORDER TO AVOID DELAY.—All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, postoffice order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce or quarter pound. On quantities over quarter pound, the purchaser pays the postage at the rate of 8c. per pound. On Beans, Peas and Corn, 8c. per pint or 15c. per quart should be added to catalogue prices to pay postage.

By writing out your order on the order sheet sent with each catalogue you will greatly facilitate our work. Extra order sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

GRIFFITH & TURNER CO. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

ARTICHOKES

LARGE GREEN GLOBE.—This is a very nice vegetable to eat. Some prefer it cooked like asparagus; that is, take the flower head before it begins to open and cook much the same way as asparagus. Pkt., 10c.; Oz., 35c.

JERUSALEM

The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Pck., 75c.; bushel, \$2.50.

BRUSSELS SPROUTS

(German, Gruener Kopfkohl.)
1 oz. of Seed to 100 Yards of Row.



A class of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. Plant in rich soil in hills 2 feet apart each way.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 45c. Lb., \$1.60.

ASPARAGUS—German, Spargel

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.

PALMETTO A very early maturing and prolific variety, producing an abundance of very large, deep green shoots of the finest quality. Seed—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c. 5 lbs., \$2.

MAMMOTH WHITE Introduced a few years ago, produces large, white shoots six inches above the surface; fine quality. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

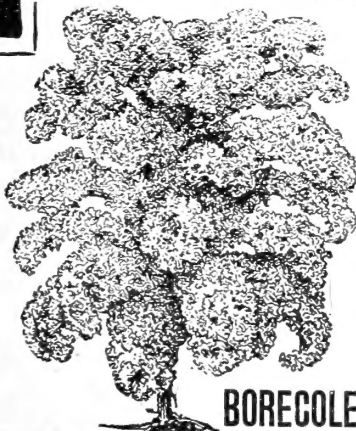
BARR'S MAMMOTH This splendid variety is very productive and about 10 days earlier than Conover's Colossal. The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c. 5 lbs., \$2.00.

CONOVER'S COLOSSAL A mammoth, green sort of quality. One of the best known and most generally cultivated varieties. Seed—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.50.

ASPARAGUS ROOTS A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7260 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

	Per 100.	Per 1000.		Per 100.	Per 1000.
Barr's Mammoth....	\$.75	\$5.50	Palmetto (Green)....	\$.70	\$5.00
Colossal (Green)....	.70	5.00	Mammoth White....	.75	5.50

Prices, by express, not prepaid.



BORECOLE

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed very scarce. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.



BROCCOLI

(German, Spargel Kohl.)

1 Ounce of Seed to 100 Yards of Row. The Broccoli are closely allied to the Cauliflower family. They require similar cultivation and treatment to cauliflower.

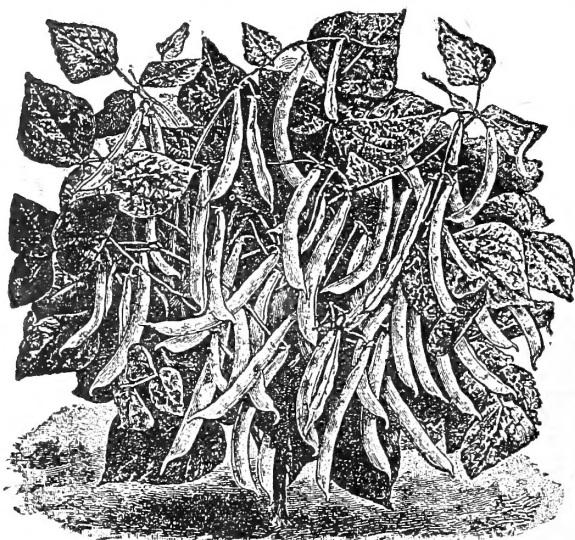
EARLY PURPLE CAPE.—Large, compact. Pkt., 10c. Oz., 35c.

LARGE EARLY WHITE.—Head white, like cauliflower; the best. Pkt., 10c. Oz., 35c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEANS

One Quart Will Plant 100 Feet of Drill.



BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.25.**

DWARF HORTICULTURAL (Cherry).—Very green podded sort, used as a shell bean, and for this purpose is one of finest in general use; long a favorite with those who use a shell bean in a green state. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

BEST OF ALL.—One of most valuable green podded sorts for family or market use. Pods are six inches long, very fleshy, succulent, stringless, of rich flavor; produced early and abundantly. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

Green-Podded BUSH

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ ft. apart, dropping the beans about 2 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

Add 8c. per pint, or 15c. per quart, on all Beans if to be sent by mail.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender, and of delicious flavor. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.25.**

G. & T. CO.'S EXTRA EARLY RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean. The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.**

EARLY RED VALENTINE.—**Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.**

BURPEE'S NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless, and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings. **Pt., 20c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages, and of mild flavor. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season; is rapidly becoming a favorite sort, as it matures equally early with Red Valentine, and has that beautiful silvery green color in the pods that is so much desired. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.**

REFUGEE, or 1000 TO 1.—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.**

EARLY MOHAWK.—**Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$4.75.**

LONG YELLOW 6 WEEKS.—Very early, hardy bean. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$4.75.**

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use. **Qt., 20c. Pk., \$1.25. Bus., \$4.00.**

WHITE NAVY, or SMALL PEA BEAN.—A well-known variety for field culture; very prolific. **Qt., 20c. Pk., \$1.25. Bus., \$4.00.**

DWARF WAX PODDED BEANS

WARDWELL'S KIDNEY WAX BEAN.—This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of unusually fine quality. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

NEW PENCIL POD WAX BEAN.—Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

CURRIE'S RUSTPROOF BLACK WAX.—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.50.**

IMPROVED RUSTPROOF GOLDEN WAX.—This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

GOLDEN-EYED WAX.—This Bush Bean is very early; the vine grows vigorously to about one and a half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

DAVIS' KIDNEY WHITE WAX.—Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

DWARF PROLIFIC BLACK WAX.—Yellow pod, a very superior snap sort, ripening among the first earlies, and having the best characteristics. Very tender. **Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.75.**

HODSON WAX.—The most vigorous wax podded bean yet introduced. The yield of large, handsome pods is enormous. Its dense foliage protects the pods so that their color is clear creamy white. Pods very long, straight or slightly curved, flat but fleshy, quite stringless and of very good quality. While late in maturing, the remarkable vigor of the plant is a safeguard against blight and other diseases. **Pt., 15c. Qt., 25c. Pk., \$1.50. Bus., \$5.00.**





BURPEE'S BUSH LIMA.

BUSH LIMA BEANS

When Beans are sent by mail add, for postage,
8c. per pt., 15c. per qt.

FORDHOOK BUSH LIMA.

An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class. **Pt., 20c. Qt., 40c. 4 Qts., \$1.00. Bus., \$8.25.**

THE "BURPEE-IMPROVED" BUSH LIMA.

Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white. **Pt., 20c. Qt., 35c. 4 Qts., \$1.00. Bus., \$8.25.**

BURPEE'S BUSH LIMA.

Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yield, each bush bearing 50 to 200 handsome, large pods, well filled. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$7.00.**

BURPEE'S QUARTER CENTURY BUSH LIMA.

A strain of the above, but an improvement. About 10 days earlier. **Pt., 20c. Qt., 30c. Pk., \$1.75.**

DREER'S BUSH LIMA.

Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$7.00.**

HENDERSON'S DWARF LIMA.

These are very valuable because they do not need poles, and being so dwarf can be planted close together. They are very early and prolific, continuing to bear until frost. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.50.**

POLE LIMAS

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties, with the exception that they crave stronger soil and do best in a sheltered location. When Beans are sent by mail add, for postage, 8c. per pt., 15c. per qt.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large lima beans earlier than any other strain, but is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod. **Pt., 15c. Qt., 30c. Pk., \$1.75.**

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.25.**

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality, and is the favorite with most people. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

FORD'S MAMMOTH POLE LIMA BEAN.—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

Extra Early Jersey Lima

This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

SEIBERT'S LARGE EARLY

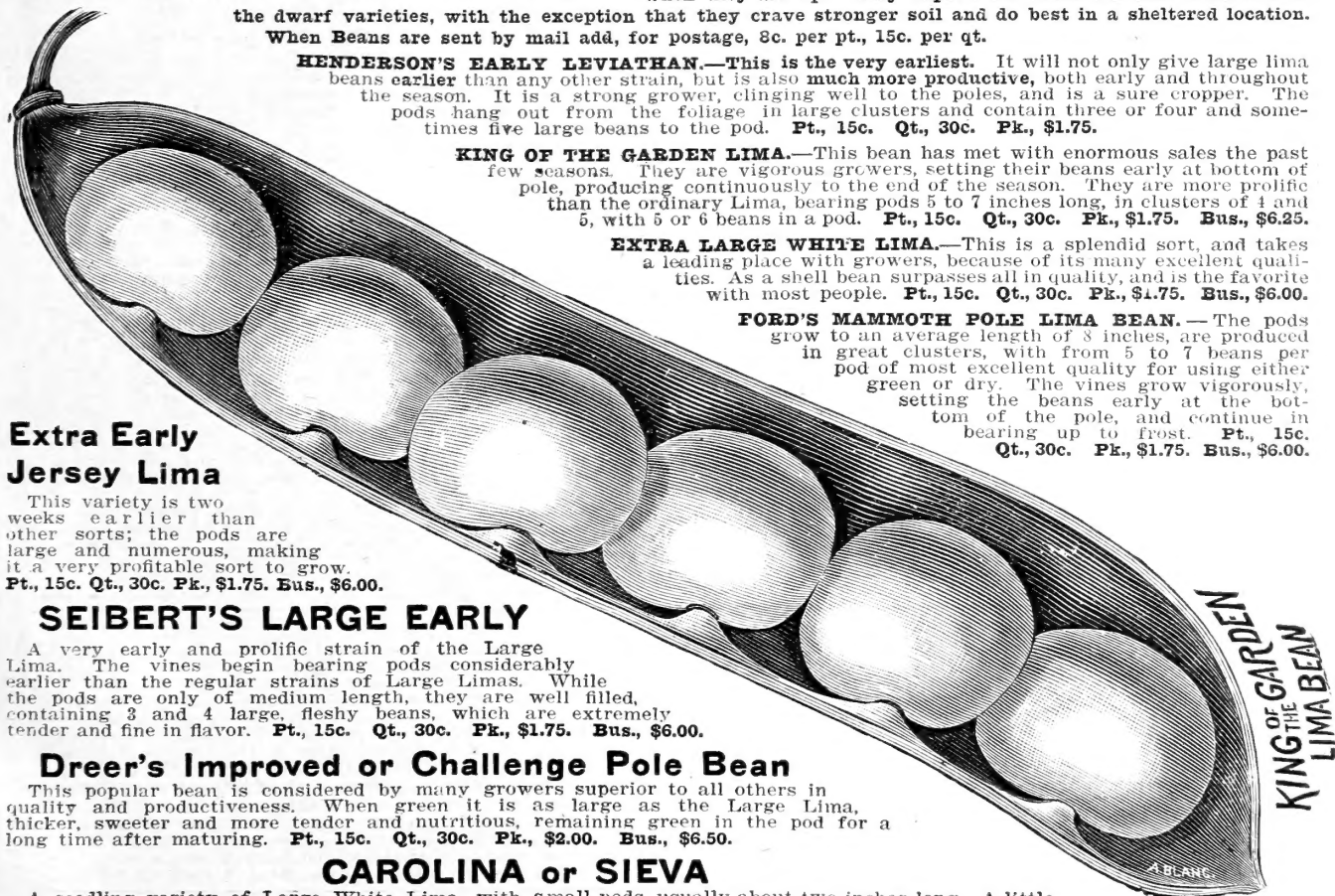
A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans, which are extremely tender and fine in flavor. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

Dreer's Improved or Challenge Pole Bean

This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.50.**

CAROLINA or SIEVA

A seedling variety of Large White Lima, with small pods, usually about two inches long. A little earlier and hardier. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**



Climbing or Pole Beans

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$7.00.

LAZY WIFE.—Large pale green pods, very thick meat, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length, nearly round when young, and very crisp. Pint, 15c.; quart, 30c.; peck, \$1.50; bushel, \$6.00.

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

WHITE CHERRY.—Great favorite. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

CREASE BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety; very productive; forms full, round pods; fleshy; stringless and distinctly creased along its back, hence its name. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$6.00.

SPECKLED CUT-SHORT, OR CORN HILL.—An old variety, very popular for planting among corn, and will give a good crop without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$6.00.

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean; leaves large, crumpled; blossoms white; pods long, flat, irregular green, but becoming cream white. Pint, 15c.; quart, 30c.; peck, \$1.50; bushel, \$5.50.

BEETS

ONE OUNCE OF SEED WILL SOW ONE HUNDRED FEET OF DRILL.

Select a deep, rich sandy loam, and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



G. & T. Co.'s Early Blood Turnip Beets

This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

DETROIT DARK RED TURNIP BEET.

This is one of the finest formed and hand-somest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb. 60c.

BEETS FOR STOCK

LONG RED MANGOLD WURZEL.

The well-known, large, long variety; grows well out of ground. Color light red. Very productive.

Pkt., 5c. ¼ lb., 15c. Lb., 30c. 5 lbs., \$1.50;

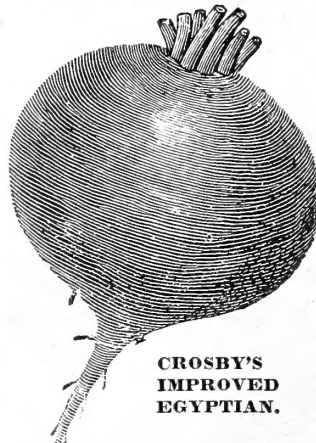
GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. Pkt., 5c. ¼ lb., 15c. Lb., 30c. 5 lbs., \$1.50.

WHITE SUGAR BEET.

A large-growing sort, and used for feeding stock.

Pkt., 5c. ¼ lb., 15c. Lb., 30c. 5 lbs., \$1.50;



CROSBY'S
IMPROVED
EGYPTIAN.

ECLIPSE BEET.—This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 60c.

BASSANO, or EXTRA EARLY TURNIP.—Flesh white and rose; very sweet and tender.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. ½ lb., 20c. Lb., 50c.

EXTRA EARLY EGYPTIAN.—This is a flat Beet, very early and deep red color. Owing to the small top, it can be planted very close.

Pkt., 5c., Oz., 10c. ¼ lb., 15c. Lb., 40c.

LARGE LONG BLOOD.—A large and desirable late variety of deep red color.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

SWISS CHARD.—Oz., 10c. Lb., 50c.

ECLIPSE BEET.



CROSBY'S IMPROVED EGYPTIAN BEET.

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so sound as the Eclipse. It may be sown outside as late as July. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

G. & T. CO.'S EARLY MARKET.

Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

EDMAND'S RED TURNIP.

The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size and deep blood color. It has a small top and may be planted close.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre.

Pkt., 5c. ¼ lb., 15c. Lb., 30c. 5 lbs., \$1.50.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ONE OUNCE
OF SEED TO
100 YARDS
OF ROW.

CABBAGE

German,
Kopfkohl.

CABBAGE must have good land. Plow deep and fertilize liberally, as it is a strong feeder. The early sorts bear planting from 18 inches to 2 feet in the rows; the larger varieties from 2 to 3 feet in the rows, with the rows from 3 to 3½ feet apart, according to variety of cabbage. It does not pay to buy cheap Cabbage Seed. Ours are American grown and from the best stock in the country. For early use, sow in a hotbed in February or March, and set out to a cold frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are 5 or 6 inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.



KING OF EARLIES.—Our own introduction; American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Head softer, but stands shipping better. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

SELECT EARLY JERSEY WAKEFIELD—AMERICAN GROWN.

The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price; but when select stock such as we offer is used it cannot fail to give satisfaction. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



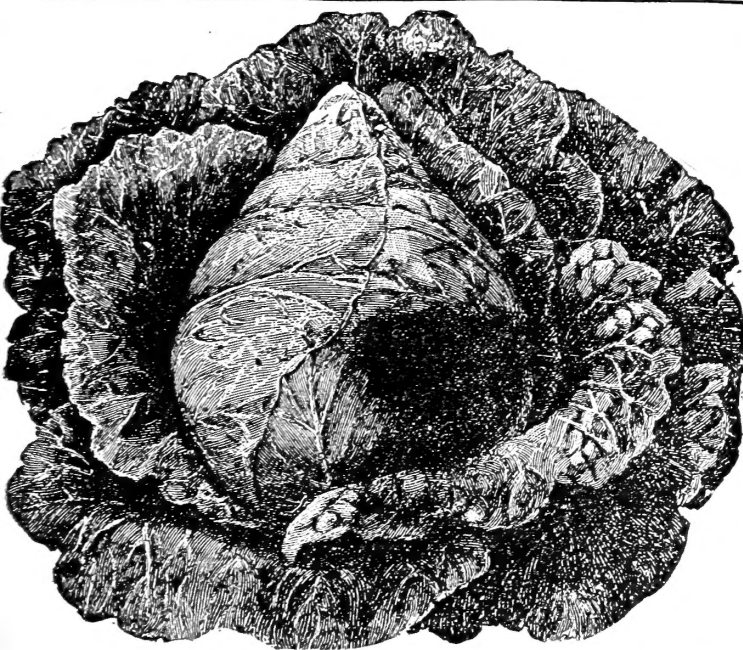
ALL-HEAD EARLY—American Grown

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

EARLY DWARF FLAT DUTCH AMERICAN GROWN.

An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

LARGE EARLY YORK.—American Grown.—One of the earliest. Forms a medium size, pointed head. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



LARGE OR CHARLESTON WAKEFIELD AMERICAN GROWN.

This is now a very popular market Cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



EARLY SUMMER CABBAGE—AMERICAN GROWN

One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with the truckers. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

CABBAGE—Continued

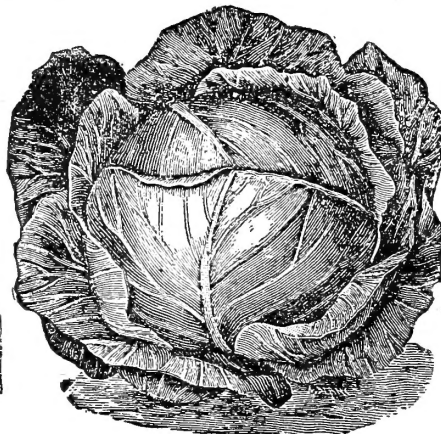


NEW EARLY CABBAGE.

NEW EARLY.—American grown. This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.**

LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

SUREHEAD.—American grown. This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**



SUCCESSION CABBAGE.

A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**

ALL SEASONS.—American grown. This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**

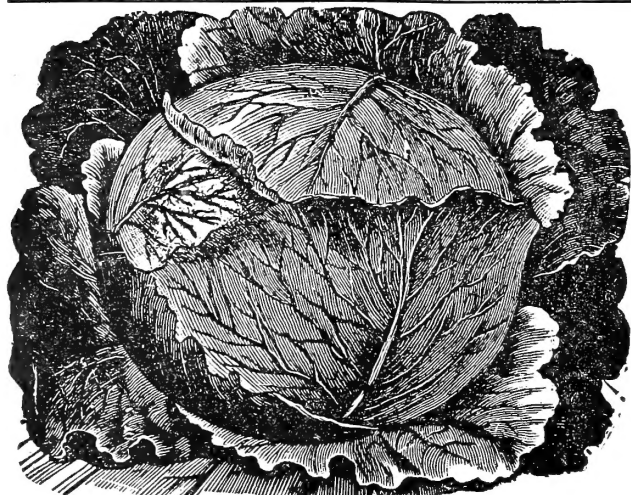


DANISH BALL HEAD CABBAGE.

DANISH BALL HEAD.—This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE.

In its improved type, this is a very fine summer or early fall variety. The plants are of dwarf, compact growth, the solid, flat heads resting on the soil, while the few outer leaves grow closely about the heads. The foliage is a light bluish green in color. The heads are very flat, quite thick through, uniformly "hard and solid," and considerably earlier than the ordinary Flat Dutch strains. Good both for intermediate and winter use. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**



BOSS FLAT DUTCH—LATE CABBAGE.

BOSS FLAT DUTCH CABBAGE.—American grown. In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it their answer is "Splendid!" or "Elegant!" "Everything heads!" "You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.**

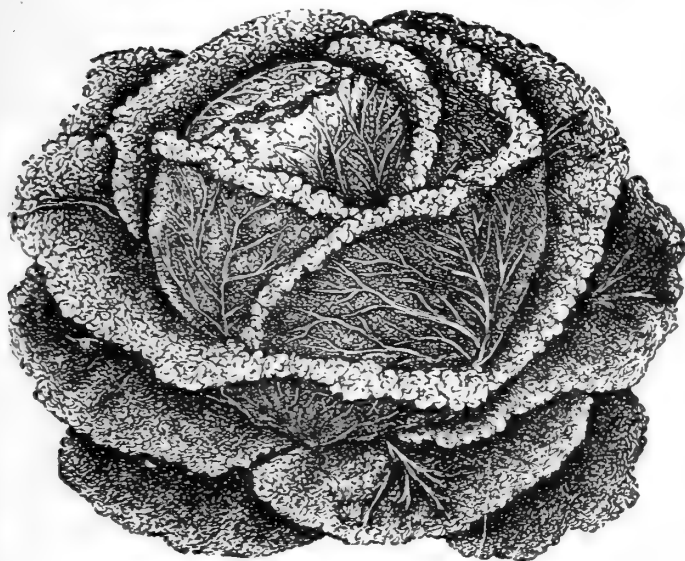


PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.

PREMIUM LARGE FLAT DUTCH CABBAGE.—American grown. Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

All Prices Subject to Change Without Notice

LATE CABBAGES—Continued.



DRUMHEAD SAVOY

LARGE LATE AMERICAN DRUMHEAD (American Grown). One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Packets, 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

WORLD-BEATER, or AUTUMN KING.—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.

Packets, 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

RED DUTCH.—The head is round, large, solid and a deep red color, the best of the red cabbages.

Packets, 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

Perfection Drumhead Savoy.

American Grown.

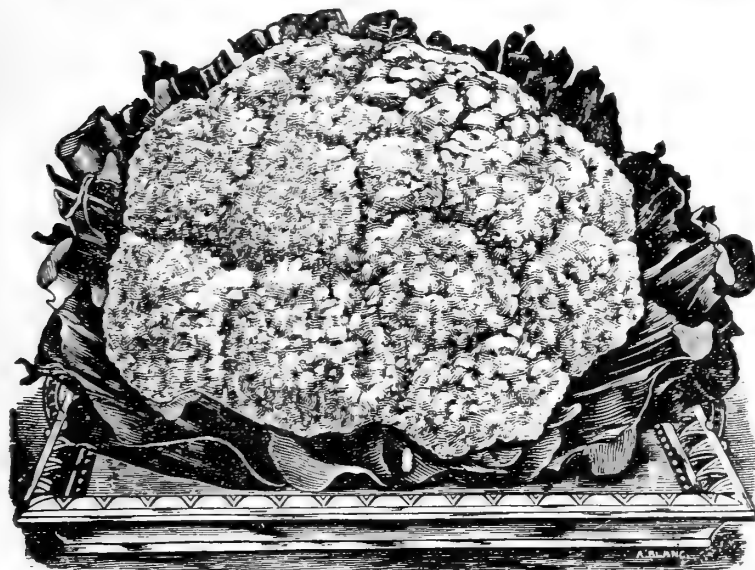
This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious of all vegetables.

Packets, 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.

Georgia Collards. Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

Packets, 5c. and 10c. ¼ lb., 25c. Lb., 75c.

G. & T. Co.'s Large Gilt Edge Snowball Cauliflower.



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.50
¼ lb., \$10.00.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass.

Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.50.

G. & T. CO.'S "DROUTH-RESISTING."—Produces large white solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

Packets, 25c. and 50c. ¼ oz., 75c. Oz., \$2.50.
¼ lb., \$9.00.

G. & T. CO.'S SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Packets, 25c. and 50c. ¼ oz., 50c. Oz., \$1.50.

EARLY PARIS.—An excellent sort for early or late use.

Packets, 5c. and 10c. Oz., 50c.

DWARF ERFURT.—An inexpensive sort, but will give good results under favorable conditions.

Packets, 5c. and 10c. ½ oz., 50c. Oz., \$1.00.

One ounce of seed will produce 2000 plants.

Culture.—The same as for Cabbage, except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.

or straw, it would keep the soil moist, and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.

CORN SALAD

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.



Cress, or Pepper Grass

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED.—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c. ¼ lb., \$1.00. Lb., \$2.75.

G. & T. CO.'S CARROTS

1 OZ. OF SEED TO
100 FEET OF ROW.

CARROTS thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.

DANVERS

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer. It is a first-class Carrot for all soils.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

DANVERS.

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

IMPROVED LONG ORANGE.

CHANTENAY

Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich orange color. Well worthy of a thorough trial. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

CELERY

German, Celerie

1 Oz. Will Produce 2000 Plants.

Plant Seed in hot-bed or very early in open ground. Transplant 4 inches apart when 3 inches high, in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass, if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

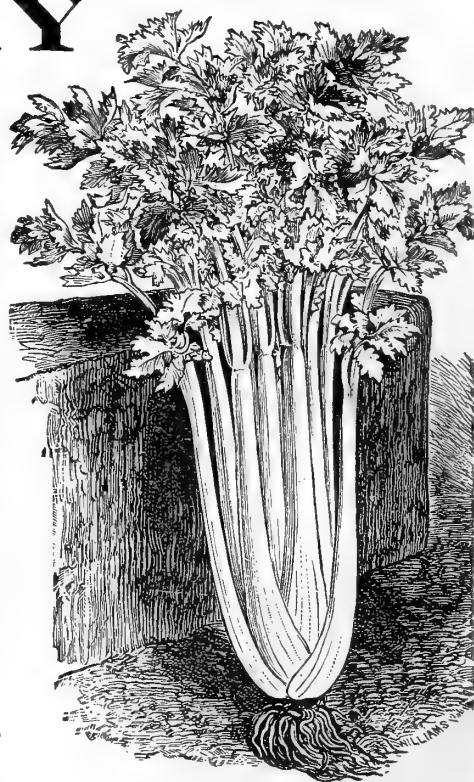
Pkts., 5c. and 10c. Oz., 60c.

¼ lb., \$2.25. Lb., \$8.00.

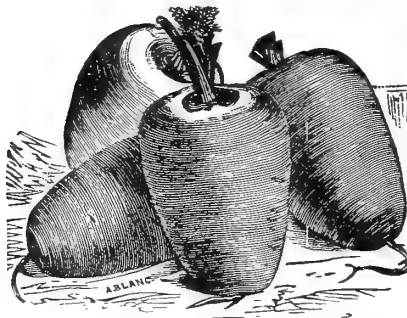
IMPROVED BOSTON MARKET.

This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.



French Golden Self-Blanching Celery.



GUERANDE, OR OX HEART.

A new French variety, intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 60c.

EARLY SCARLET HORN.

Blunt-rooted, early, good. Favorite sort for early crop.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

WHITE SOLID

A large standard sort. One of the large growing sorts.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

NEW ROSE. In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being harder, more solid and better keepers.

Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

CELERY SEED FOR FLAVORING.

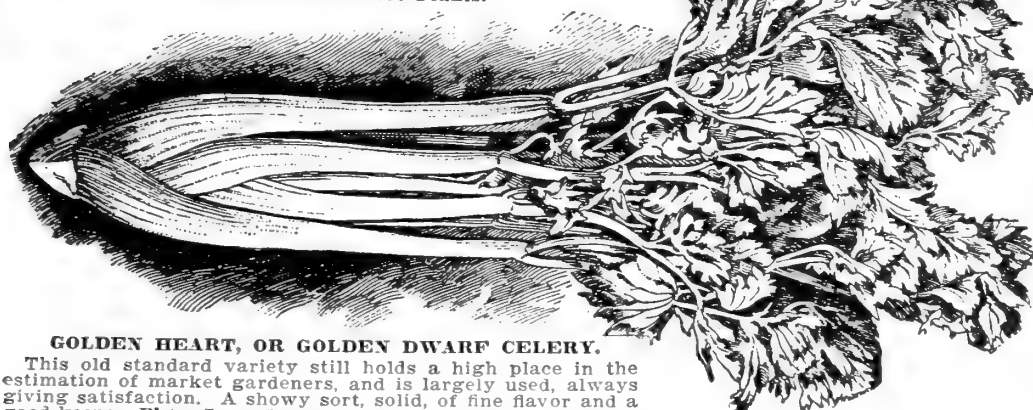
This seed is used for flavoring pickles, soups, etc.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 25c.

CELERY German, Celerie.

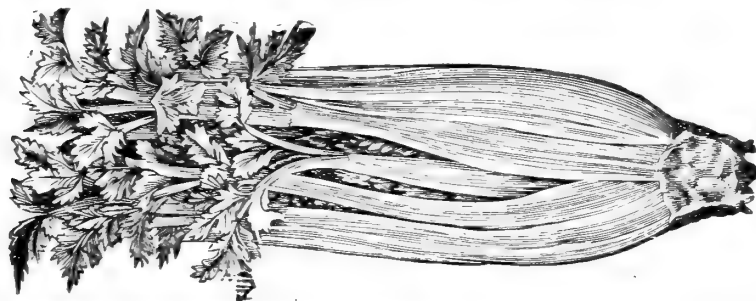
CONTINUED.

1 Oz. Will Produce 2000 Plants.



GOLDEN HEART, OR GOLDEN DWARF CELERY.

This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



PERLE LE GRAND.

The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and saleable, a single plant making a good-sized bunch and surpassing all others in weight. It

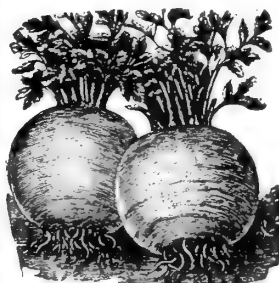
is not only good early Celery, being among the first fit to use, but is a winter keeper, remaining, when properly trenched, in perfect condition far into the spring. Pkt., 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.

PINK PLUME.

This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red Celeries are noted. Pkt., 10c. Oz., 20c. ¼ Lb., 50c.

CELERIAC

OR TURNIP ROOTED CELERY.



Large Smooth Prague.

NEW APPLE SHAPE.

Small foliage, large, round, and smooth.

Pkts., 5c. and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.50.

LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

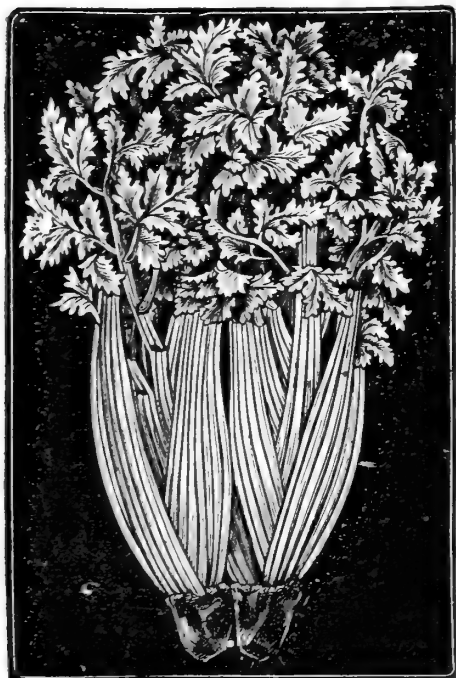
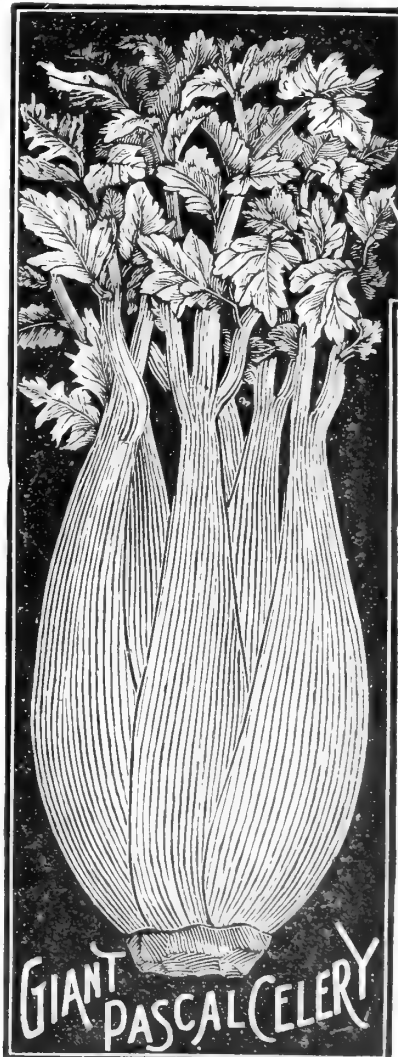
WINTER QUEEN CELERY.

It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

GIANT PASCAL CELERY

A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine, nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



WHITE PLUME.

An early, handsome, self-blanching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$1.75.

CAUTION. Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

SWEET OR SUGAR CORN FOR TABLE USE

WHEN CORN IS WANTED BY MAIL, ADD 8 CENTS PER PINT TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

FIRST EARLY VARIETIES

EXTRA EARLY BALTIMORE.

The hardiest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.**

G. & T. CO.'S NEW 60-DAY CORN.—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.25.**

EARLY ADAMS.—A favorite in the South. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.25.**

EARLY BURLINGTON HYBRID.—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. **Pt., 15c. Qt., 25c. Pk., 90c. Bus., \$3.50.**

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. **Qt., 15c. 2 qts., 25c. 4 qts., 40c. Peck, 60c. Bus., \$2.25.**

MEDIUM EARLY VARIETIES

Sweet or Sugar.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground. **Pt., 15c. Qt., 30c.**

PREMO.—The best early sweet corn on the market. A genuine sweet corn as early as the Adams Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

CORY.—An early variety red cob. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.25.**

WHITE CORY.—An early variety, with good-sized ears and large kernels. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

MAIN CROP VARIETIES



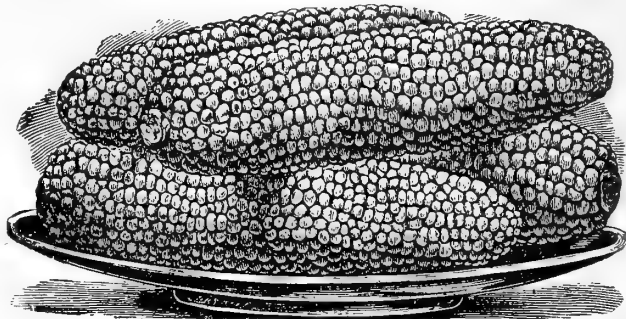
TRUCKERS' EARLY CORN.

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

SUGAR CORN.—For fodder. Write for prices.

Truckers, Write for Prices in Quantity.

MAIN CROP VARIETIES—Continued



COUNTRY GENTLEMAN.

COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

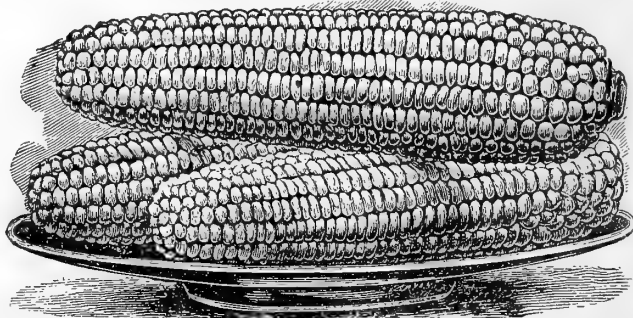
IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain; very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

LATE MAMMOTH.—The largest variety grown; very fine for market purposes. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

EGYPTIAN, OR WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$4.00.**

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$4.00.**

KENDALL'S EARLY GIANT.—The largest early sweet corn known, and is very productive. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**



STOWELL'S EVERGREEN.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

WHITE EVERGREEN.—Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner. **Pt., 15c. Qt., 25c. Peck, \$1.25.**

1 Oz. Will Plant 50 Hills.
2 Lbs. Will Plant an Acre.

CUCUMBER

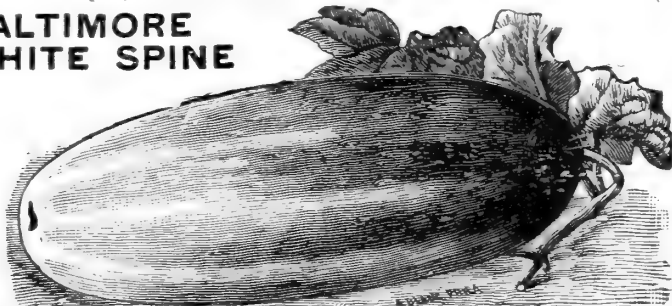
German,
Gurke

Prices Subject to Change
Without Notice.

CULTURE

For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be easily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 1 foot apart for the smaller varieties, and 5 feet for the larger sort. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster of paris, if left to ripen, it destroys their productiveness. The Cucumbers should be gathered when large enough for use, whether required or not;

BALTIMORE WHITE SPINE

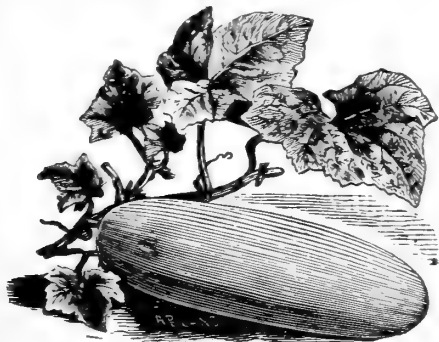


This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

EXTRA EARLY WHITE SPINE.—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

EARLY GREEN PROLIFIC.—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.



WHITE WONDER

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

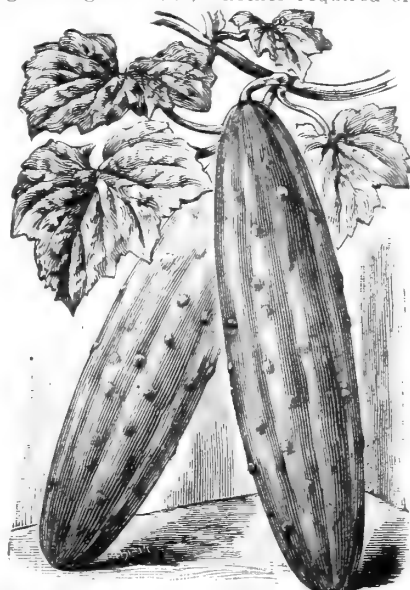
CHICAGO PICKLING

Very Popular with Chicago Market Gardeners, and Extensively Grown in that Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.

GHERKIN, OR BURR

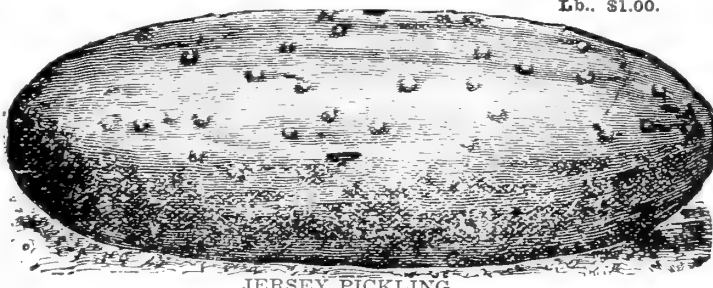
Used for Pickles Only.
Pkt., 5c. Oz., 20c. 1/4 lb., 50c. Lb., \$2.00.



IMPROVED LONG GREEN

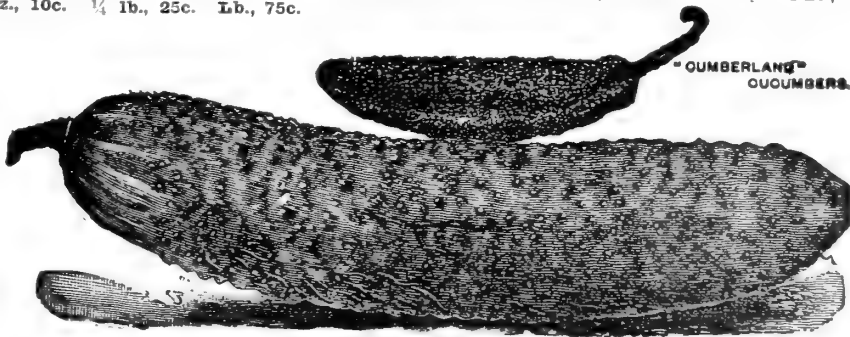
Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

LONG GREEN TURKEY.—A very showy and excellent sort. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.



JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety. Pkt., 5c. Oz., 10c. 1/4 lb., 25c. Lb., 75c.



"CUMBERLAND"
CUCUMBERS.

CUMBERLAND.

A new and distinct variety. Said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts. Pkt., 5c. Oz., 10c. 1/4 lb., 30c. Lb., \$1.00.

CUCUMBER

CONTINUED.



EVER-BEARING CUCUMBER

This variety is unique and will prove valuable both for the table and for pickling. Its of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

Cool and Crisp

This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim, and of a dark color; it is very tender and crisp.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

Early Cluster

A short, prickly variety, bearing in clusters near the root. A good bearer.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

Japanese Climbing Cucumber

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe.

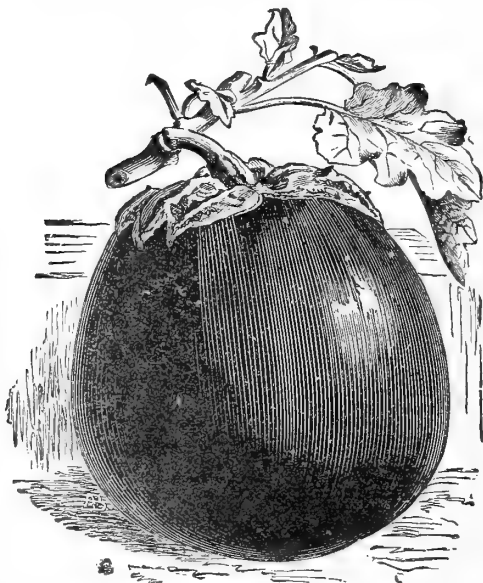
Pkt., 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c.

English Forcing Cucumber

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night.

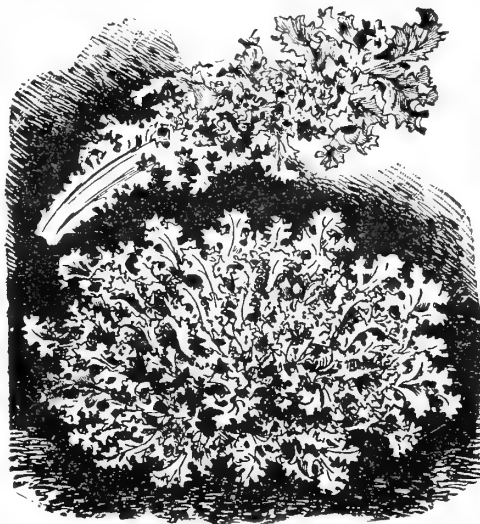
TELEGRAPH is the best. 25c. Packet.

BALTIMORE



EGG PLANT

Green Curled Endive



GREEN CURLED ENDIVE.

GREEN CURLED.—The best sort in use. Useful as a salad, and also used for garnishing.

Pkt., 5c. Oz., 15c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

German, Endivien

IS ONE OF THE BEST SALADS FOR FALL AND WINTER USE. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and thin plants to six or eight inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

German, EGG PLANT Eierpflanze

CULTURE.—Sow the seed in hotbeds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants may become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1000 plants.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. Pkt., 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.00.

BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants, and produces fruit quite as large as the **NEW YORK PURPLE** in 10 days' less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade. Pkt., 10c. Oz., 35c. $\frac{1}{4}$ lb., \$1.25. Lb., \$3.75.

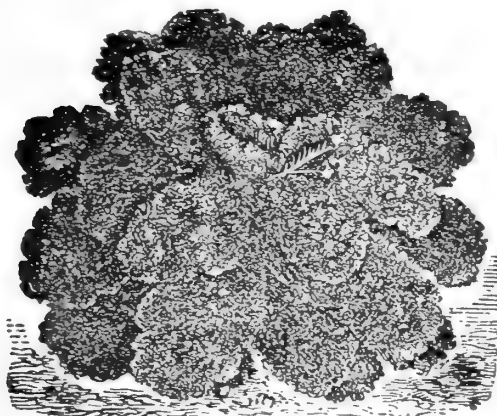
NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost. Pkts., 5c. and 10c. Oz., 30c. $\frac{1}{4}$ lb., 90c. Lb., \$3.00.

THE FLORIDA HIGHBUSH EGG PLANT.—Is in great demand by Southern truckers. It has a very vigorous growth and remarkably hardy. The plant grows very erect and holds the fruits clear of the ground. Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c. Lb., \$2.75.

K A L E

**German,
Blaetter-Kohl**

One Ounce of Seed Will Sow a
Drill of About 200 Feet.



EXTRA CURLED NEW AMERICAN KALE.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use.

Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

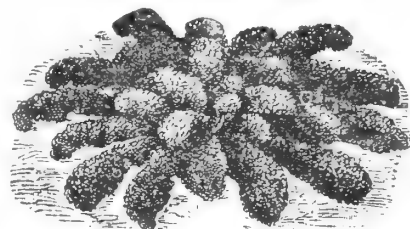
NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Packet 5c.
Ounce 10c.
 $\frac{1}{4}$ lb. 20c.
Pound 60c.

EXTRA CURLED NEW AMERICAN KALE.

This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.



DWARF GREEN GERMAN KALE.

NEW IMPERIAL CURLED LONG-STANDING KALE.—Pkt., 5c. Oz., 10c.

$\frac{1}{4}$ lb., 15c. Lb., 40c.



KOHLRABI

1 OZ. OF SEED TO 100 YARDS
OF ROW.

WHITE VIENNA

BULB LIGHT GREEN.
FLESH WHITE.
VERY RAPID IN GROWTH.
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM.
SUPERIOR.

Pkts., 5c. and 10c.
Oz., 20c. Lb., \$2.00. $\frac{1}{4}$ lb., 60c.

IMPROVED KOHLRABI.—Pkts.,
5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 50c.
 $\frac{1}{2}$ lb., 90c. Lb., \$1.75.

L E E K

**German,
Lauch**

1 OZ. OF SEED TO 150 FEET OF ROW.

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture.

Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

MUSSELBURGH.—Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

LARGE ROUEN.—Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 30c. Lb., \$1.00.



L E T T U C E

German, Lattich

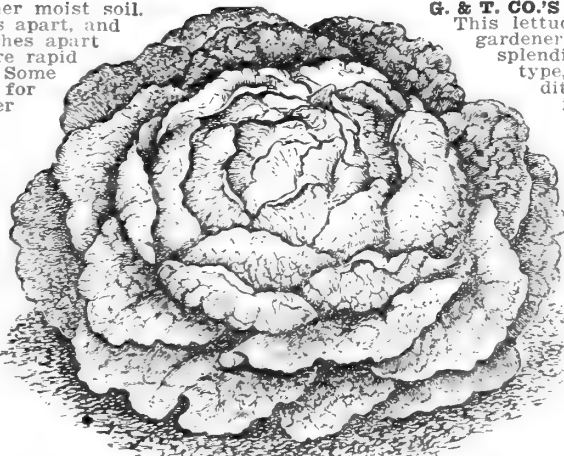
Lettuce requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. Co.'s White Seed Summer Lettuce

The Best Summer Lettuce Ever
Introduced.

This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender and of most excellent flavor.

Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 40c.
Lb., \$1.25.



G. & T. CO.'S SUMMER LETTUCE (Black Seed).—

This lettuce is becoming very popular among gardeners for summer use. It produces a splendid large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

EARLY WHITE CABBAGE, OR BUTEE.—A broad-leaved, vigorous-heading sort; white, showy and desirable. Pkt., 5c. Oz., 15c. $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

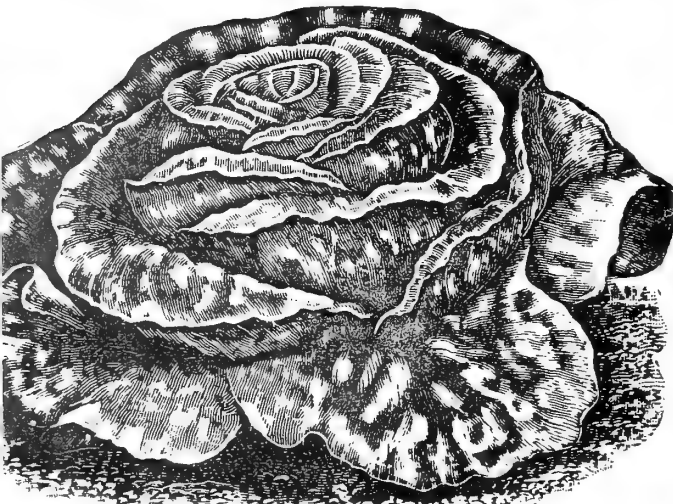
EARLY CURLED SIMPSON.—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., 90c.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 30c. Lb., 90c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LETTUCE—Continued



BALTIMORE CABBAGE LETTUCE.

BALTIMORE CABBAGE LETTUCE

G. & T. CO.'S TRUE STOCK.

Large Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best of all for FALL PLANTING.

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine." Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

IMPROVED NEW YORK, or "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

CALIFORNIA**CREAM BUTTER LETTUCE.**

This is fairly well known, and has given good results with the growers.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

HANSON.

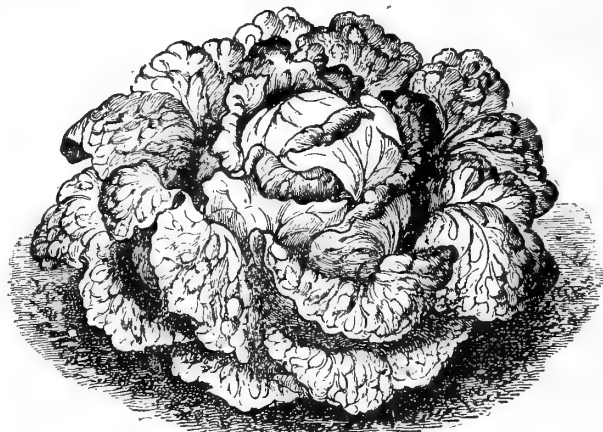
A variation of the Indiana, forming a half-closed head.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

**BIG BOSTON.**

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

BALTIMORE OAK LEAF.—This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkts., 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

MAMMOTH BLACK-SEEDED BUTTER LETTUCE.

A strain of large, smooth-leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves, the inner ones becoming very white, tender and fine flavored.

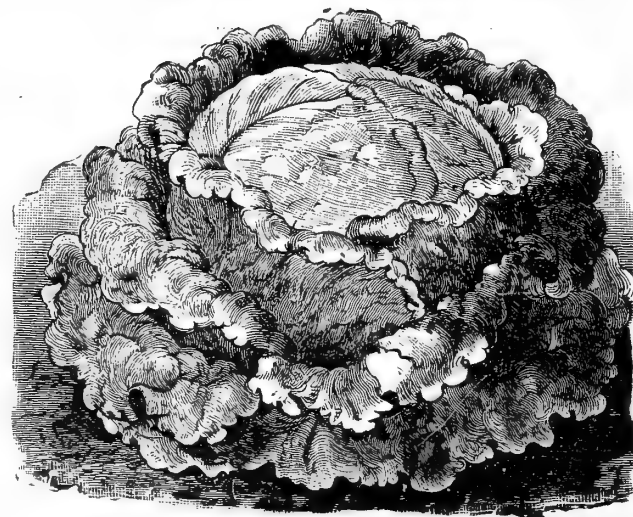
Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

ROMAINE, OR PARIS WHITE COS.—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up.

Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive. Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

LARGE LOAF LETTUCE**LARGE LOAF LETTUCE.**

THIS is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.

Pkt., 5c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

GRAND RAPIDS.—This variety is largely grown for shipment, and is considered by many the best loose-headed lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 30c. Lb., \$1.00.

DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through.

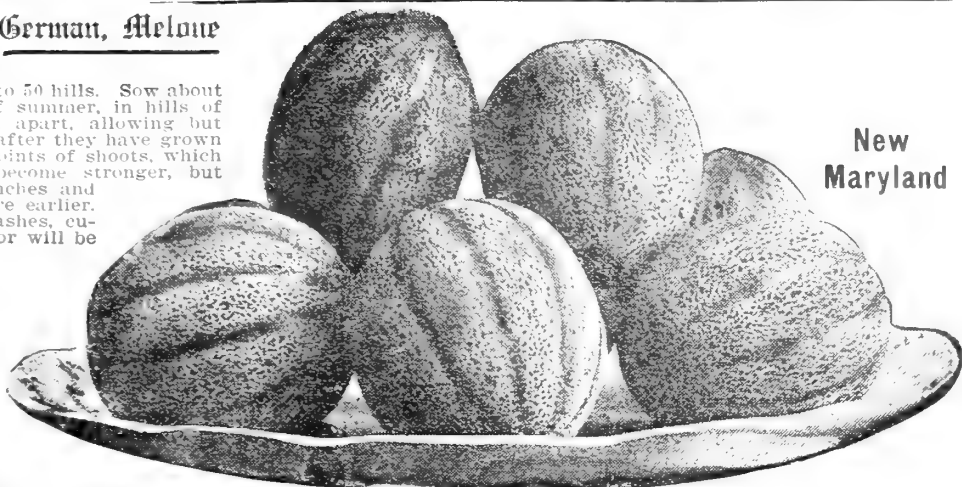
Pkts., 5c. and 10c. Oz., 15c.
 $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

MUSKMELON, German, Melone

CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer, in hills of light, rich, sandy soil, four feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

NEW MARYLAND CANTALOUPE.—The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure money-maker. Our truckers around Baltimore will have no other after planting our New Maryland.

Oz., 15c. ¼ lb., 50c. Lb., \$1.50.



New Maryland

BALTIMORE

NUTMEG

Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor Wherever Grown.

The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

IMPROVED JENNY LIND.

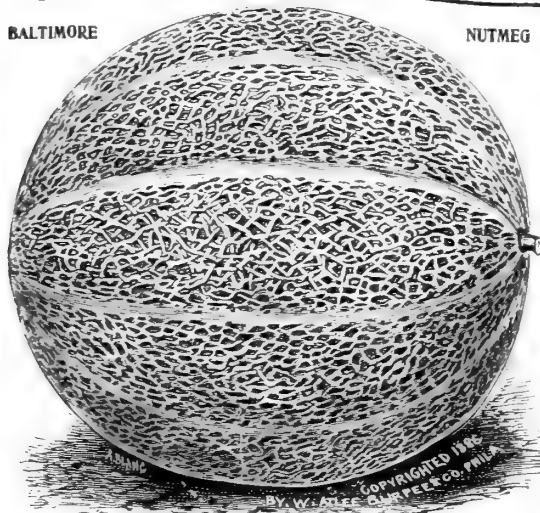
A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again.

Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.



OSAGE, OR MILLER'S CREAM.

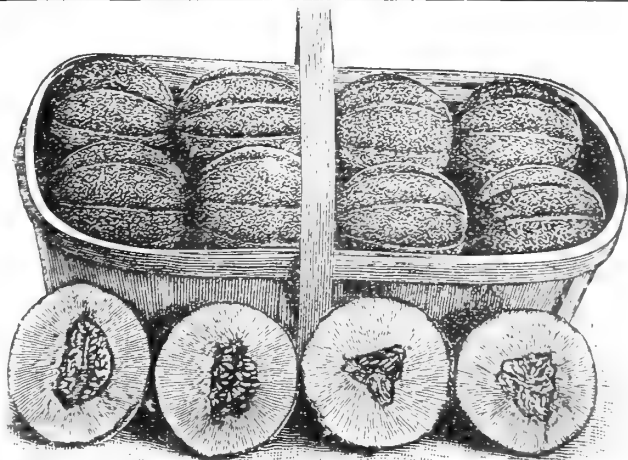
Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.00.



EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meat; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates. Pkts., 5c. and 10c. ¼ lb., 25c. Lb., 75c.



Rocky Ford Cantaloupe

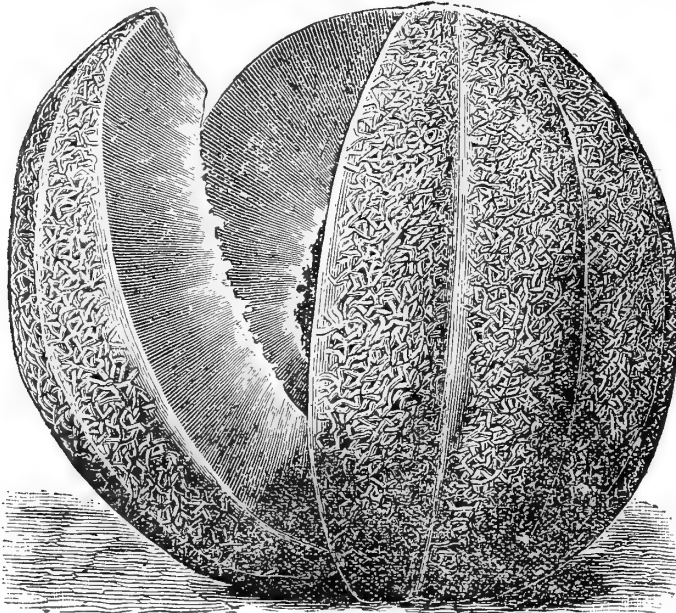
ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens. Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

MUSK MELONS—Continued.



ANNE ARUNDEL.

ANNE ARUNDEL CANTALOUPE

(Original Stock.)

The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagonload of them at once attracts the buyer's attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

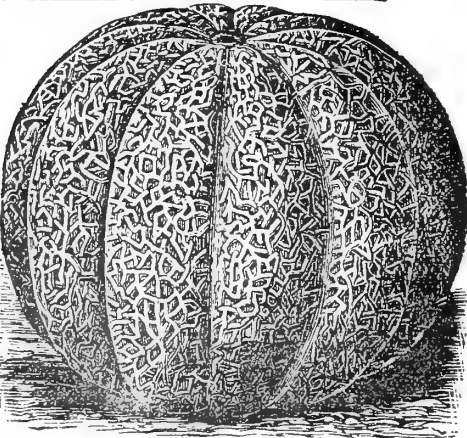
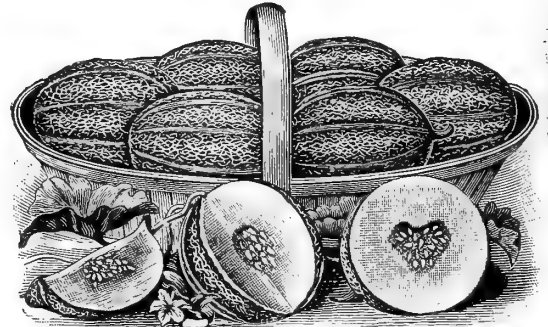
This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 75c.**

One grower says: "It is in all respects one of the best of melons."

Another says:

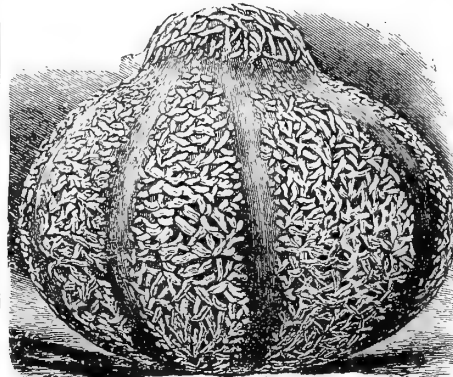
"Portsmouth, Va.

"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."

**PAUL ROSE**

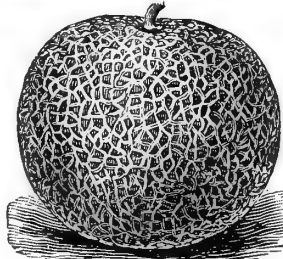
PAUL ROSE.

This variety originated with one of the most successful melon growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.**

**NORFOLK
BUTTON**

An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once.

Pkt., 5c. and 10c. ¼ lb., 30c. Lb., \$1.00.

BANQUET

This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production, and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon.

Pkt., 5c. Oz., 20c. ¼ lb., 50c.

EXTRA EARLY HACKENSACK

Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.00.

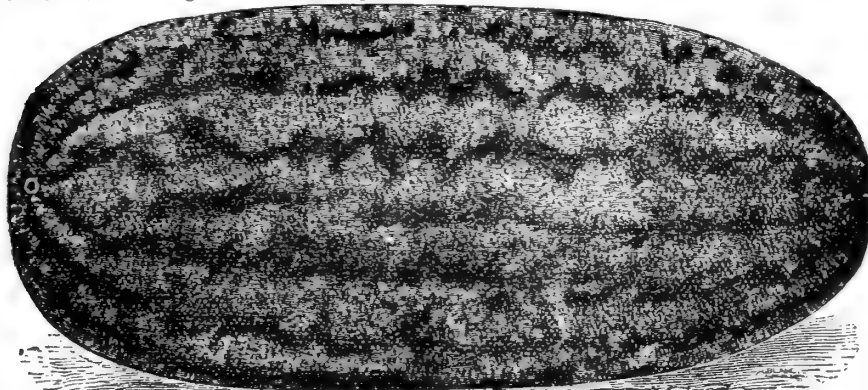
PERFECTED—DELMONICO.—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. **Pkt., 5c. Oz., 15c. ¼ lb., 50c.**

LONG ISLAND BEAUTY.—**Pkt., 5c. Oz., 15c. ¼ lb., 40c.**

WATERMELONS

German—Wasser Melone

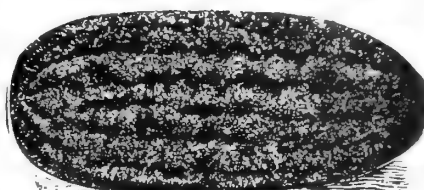
CULTURE.—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.



LORD BALTIMORE

It is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Packet, 5c. Ounce, 10c. ¼ lb., 20c. Pound, 60c.



Florida Favorite

This we consider the richest and sweetest flavored melon grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

McIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality, however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

FORDHOOK EARLY.

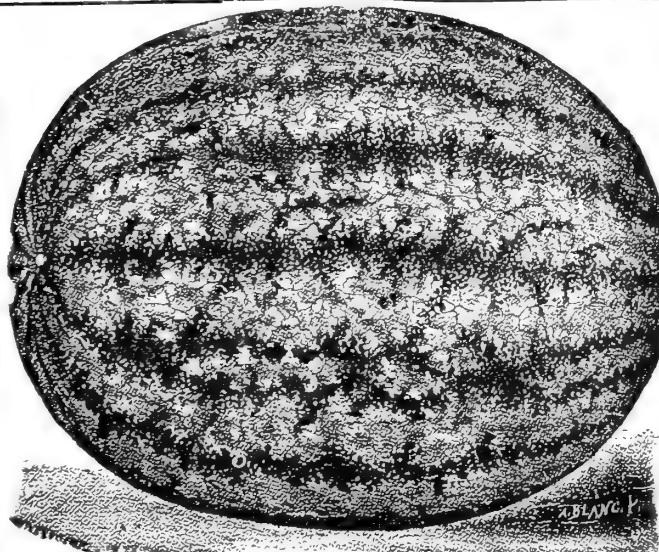
This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

Duke Jones Watermelon

In shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct, irregular stripes of dark and light green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing, ripe melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough; no hard middles, but ripens evenly throughout; flesh deep crimson in color. The Duke Jones is the largest of melons, but has no superior in its delicious flavor.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.



DUKE JONES.

GRAY MONARCH, OR LONG WHITE ICING.

This distinct melon is without doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances, and bringing very high prices.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c.

BEADFORD WATERMELON.

A favorite above all others in sections where it has been grown. It makes a strong, healthy growth of vine and is very productive. The melons grow to a large size; rind dark green with darker stripes; flesh red and remarkably tender and sweet. An excellent melon for home use.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other melon equaling it in tough skin and rind; in this respect even superior to the Kolb Gem.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best.

Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.

Triumph Watermelon

This new melon as a market sort and for shipment is the very best we have ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and the Kolb Gem; has the handsome appearance of the former and the fine shipping qualities of the latter. The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem. The average size of the melon is very large.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

BLACK STRIPED KOLB GEM WATERMELON.

The size of this fruit is uniformly large; shape oval; color a rich dark green with fine stripes of lighter shade; much darker and richer than the old well-known Kolb Gem; flesh rich deep pink; crisp and melting; ripens to within half inch of rind. The exceptionally strong rind makes it an excellent shipper; flavor remarkably sweet and sugary.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

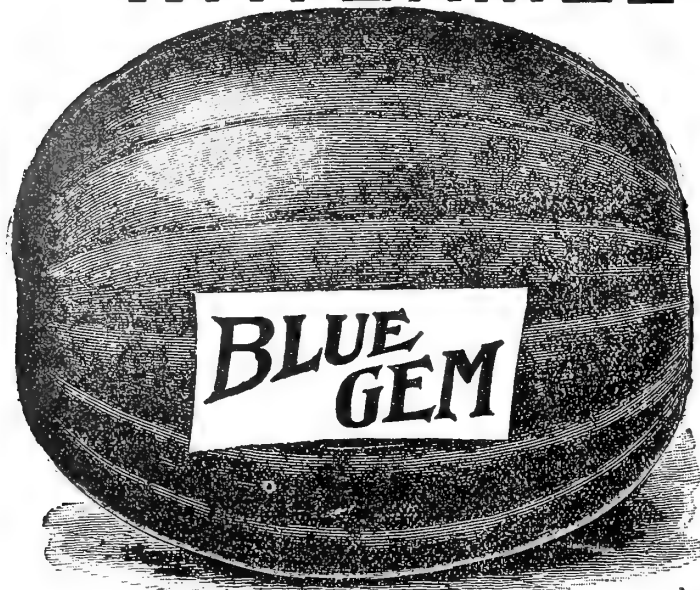
CITRON

For Preserves. Fruit round and handsome. Used in making preserves only.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 75c.

WATERMELONS—CONTINUED

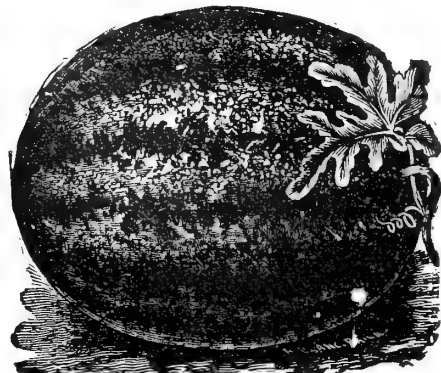
KOLB'S GEM



BLUE GEM

THIS splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers, and as a table melon is of a dark bluish color, with small grayish stripes. Is much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the BLUE GEM." Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c. 5 lbs., \$2.25.



THIS is one of the largest, most productive, best keeping and best shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 40c

DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

ENGLISH MILL TRACK MUSHROOM SPAWN

Lb., 15c. By Mail, 25c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$8.00, by Freight or Express.

CULTIVATION

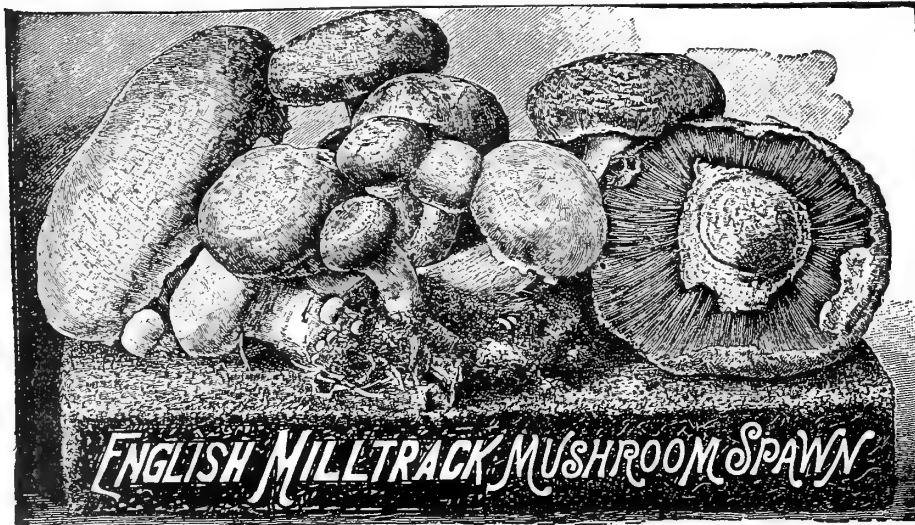
THE cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 2 feet wide at the base, $2\frac{1}{2}$ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces

of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successfully grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN.—About the first of June take pieces of spawn an inch square, and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.



ENGLISH MILL TRACK MUSHROOM SPAWN

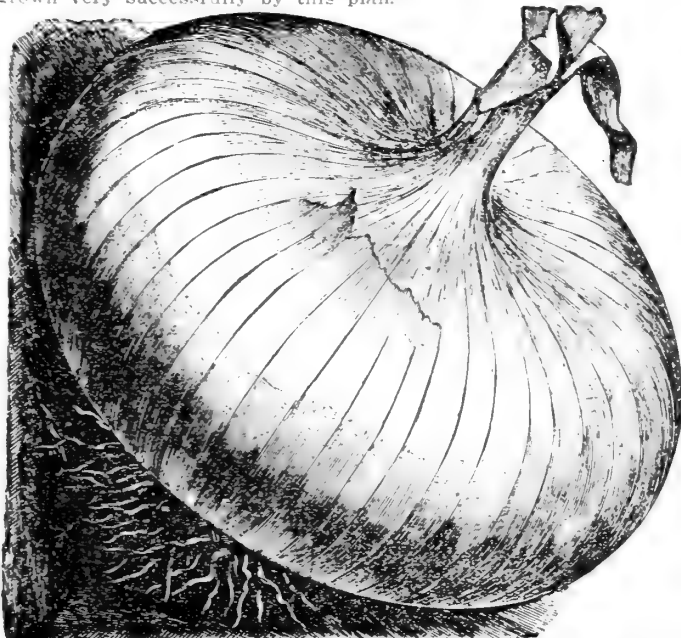
ONION SEED

German, Zweibel

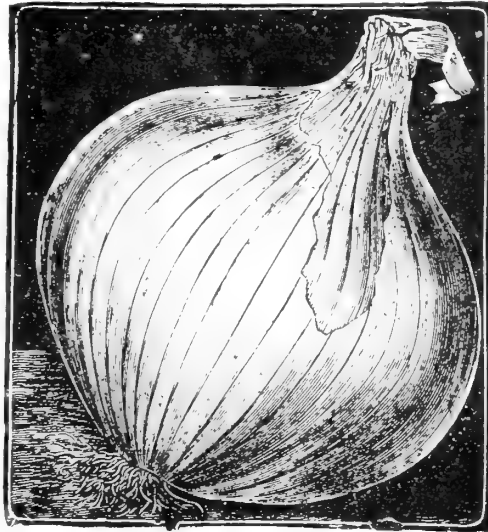
CULTIVATION

TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



PRIZETAKER



American Grown.

THIS is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success. **Pkt., 5c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.40.**

WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper. **Pkt., 5c. Oz., 15c. 1/4 lb., 40c. Lb., \$1.50.**

LARGE YELLOW DUTCH, OR STRASBURG.—Very fine; a good keeper. The kind used very largely by those who grow onion sets for market. **Pkt., 5c. Oz., 20c. 1/4 lb., 35c. Lb., \$1.25.**

WHITE SILVERSKIN, or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets. **Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 60c. Lb., \$2.00.**

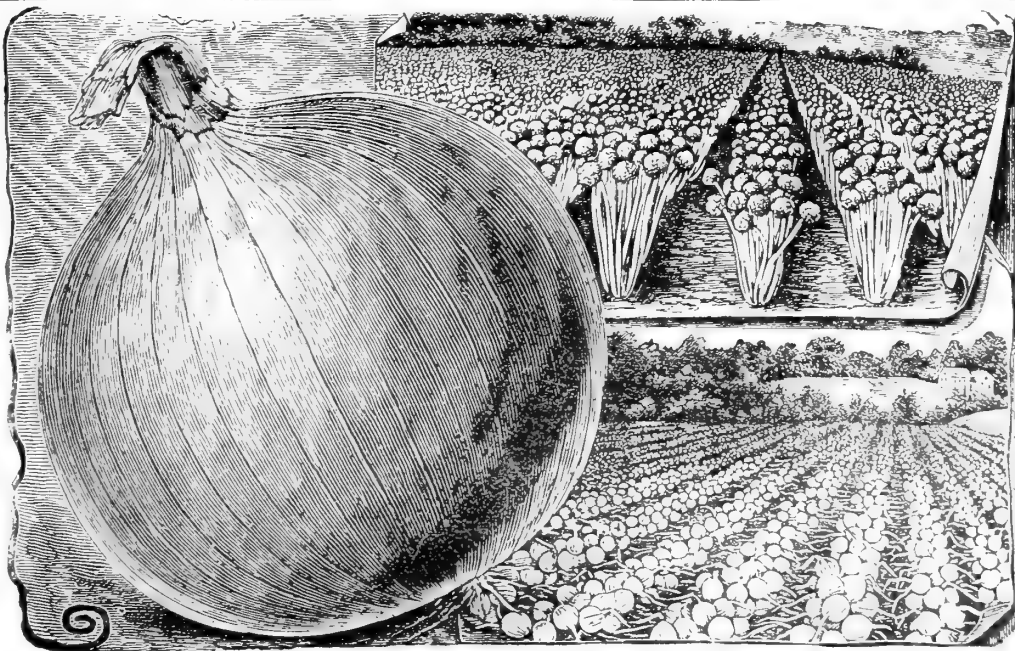
WHITE PEARL ONION.—Earliest of all, growing with all the rapidity of a summer radish. Fearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large onions, because of its rapid growth and fine quality. **Pkts., 5c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.40.**

AUSTRALIAN BROWN—A Valuable Long-Keeping Onion.—This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant. **Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 40c. Lb., \$1.50.**

Yellow Globe Danvers

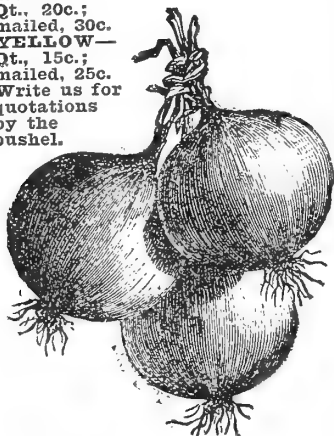
A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. **Pkt., 5c. Oz., 20c. 1/4 lb., 35c. Lb., \$1.25.**

YELLOW FLAT DANVERS.—Pkts., 5c. and 10c. Oz., 25c. 1/4 lb., 35c. Lb., \$1.25.



ONION SETS

WHITE—
Qt., 20c.;
mailed, 30c.
YELLOW—
Qt., 15c.;
mailed, 25c.
Write us for
quotations
by the
bushel.



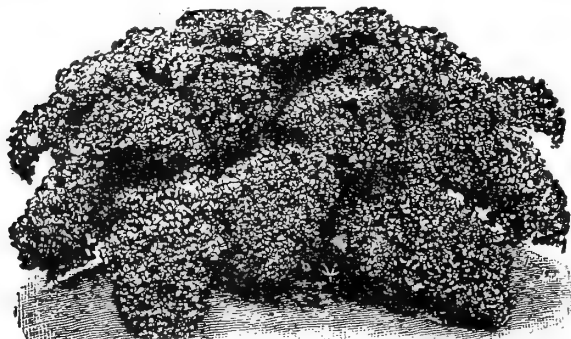
CULTIVATION FOR SETS.

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of onion sets. On no other condition can you hope for success. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

PARSLEY.

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

MOSS CURLED.—A very select crimped variety.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 45c.



NASTURTIUM

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

TALL.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 55c.

DWARF.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 40c.

OKRA, OR GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

PARSNIP

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

HOLLOW CROWN OR SUGAR

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts., 5c. and 10c. ¼ lb., 15c. ½ lb., 20c. Lb., 40c.

MUSTARD GIANT. CURLED

Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE MUSTARD.—¼ lb., 10c. Lb., 30c.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PEAS

NOTICE.—In ordering Peas to be sent by mail, please add 8c. per pint to pay postage.

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. Co.'s First Early Peas

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.)

This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

Fint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$7.00.

NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

Quart, 30c. Peck, \$2.25. Bushel, \$8.00.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked.

Quart, 25c. Peck, \$1.75. Bushel, \$6.50.

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the first early. Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the early varieties. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.

TRIUMPH PEAS.—Quart, 30c. Peck, \$1.75. Bushel, \$6.50.

PHILADELPHIA EXTRA EARLY PEAS.—Qt., 30c. Peck, \$1.75. Bus., \$6.50.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking. Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.75.

New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

Price: Pint, 15c. Quart, 30c. Peck, \$1.75. Bushel, \$6.75.

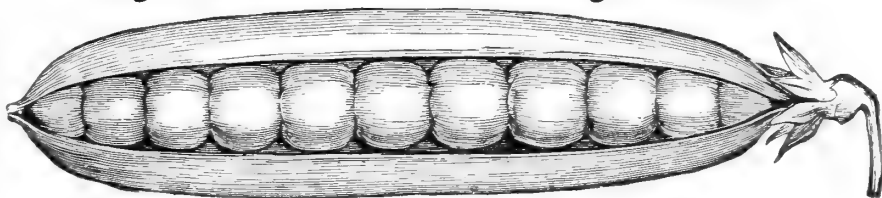
MARYLAND PRIDE PEAS.—Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska. Ft., 20c. Qt., 40c. Peck, \$2.25. Bushel, \$9.00.

THOMAS LAXTON.—Habit and growth same as GRADUS, but pods are a deeper green color, square at the ends, having fine flavor. Pint, 20c. Quart, 35c. Peck, \$2.25. Bus., \$9.00.

GRADUS, OR PROSPERITY.—Pale Green Wrinkled.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit. Pint, 20c. Quart, 35c. Peck, \$2.25. Bushel, \$9.00.

MARYLAND PRIDE.

Large Podded Extra Early Sugar Varieties



Dwarf Extra Early Varieties

NOTT'S EXCELSIOR.—It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

AMERICAN WONDER.—Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

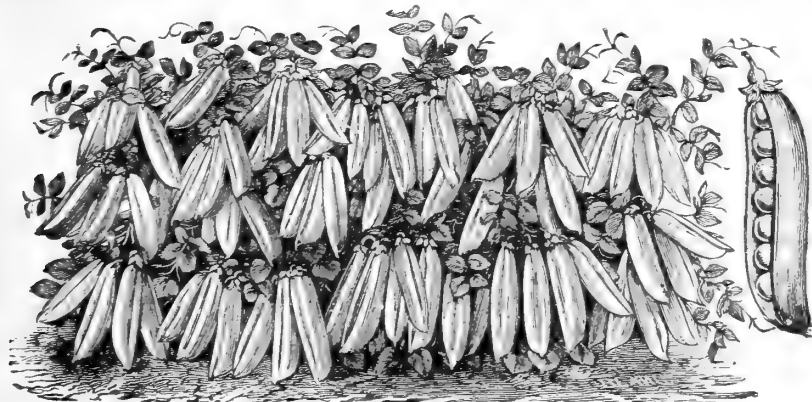
Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

MCLEAN'S LITTLE GEM.—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled.

Ft., 15c. Qt., 30c. Peck, \$2.00. Bus., \$7.50.

BLUE PETER, OR BLUE TOM THUMB.—One of the earliest and hardiest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb.

Ft., 15c. Qt., 30c. Peck, \$1.75. Bus., \$7.00.



NOTT'S EXCELSIOR PEAS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PEAS—Continued

DAY'S SUNRISE.—Large, prolific, heavy cropper, fine for market gardener and trucker. One of the best for medium crops. Qt., 20c. Pk., \$1.00. Bus., \$4.00.

ADVANCE.—Height, 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction. Qt., 30c. Pk., \$2.00. Bus., \$7.50.

EVERBEARING.—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality. Qt., 30c. Pk., \$2.00. Bus., \$7.50.

YORKSHIRE HERO.—Height, 2½ feet. A wrinkled variety; productive, and of very superior flavor. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

SHROPSHIRE HERO.—A grand new second early wrinkled pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet. Ft., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

MEDIUM OR SECOND EARLY HALF-DWARF WRINKLED VARIETIES

ABUNDANCE.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety; pods 3¼ inches long, containing 6 to 8 large Peas of excellent quality. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

PRIDE OF THE MARKET.—A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 Peas of fine quality; 1½ feet. Ft., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

HORSFORD'S MARKET GARDEN.—Height, 2½ feet. A medium early wrinkled variety; highly recommended. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

IMPROVED STRATAGEM.—Height, 2½ feet. A large, wrinkled blue Pea of excellent quality; very long, large, filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior. Qt., 30c. Pk., \$2.00. Bus., \$8.00.

DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

MAIN CROP — Medium and Late Varieties

HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet. Ft., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.50.

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled. Ft., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.

TELEGRAPH, or LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. Ft., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored, and very productive. Ft., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

GARDENER'S FAVORITE.—Height, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort. Ft., 15c. Qt., 30c. Pk., \$2.00. Bus., \$7.00.

ADMIRAL DEWEY.—Here we have a most excellent Pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it. Ft., 20c. Qt., 35c. Pk., \$2.25. Bus., \$8.00.

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor. Ft., 10c. Qt., 20c. Pk., 90c. Bus., \$3.50.



GARDENER'S FAVORITE.

IMPROVED SUGAR MARROWPEAT PEAS (Genuine Stock).—Height, 3½ ft. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. Ft., 10c. Qt., 20c. Pk., 90c. Bus., \$3.50.

Edible Podded or Sugar Peas

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which are so brittle that they snap without any strings. Ft., 15c. Qt., 30c. Pk., \$2.25.

TALL GRAY SUGAR (Edible Pods).—Cooked in the pods same as Snap Beans. Ft., 15c. Qt., 30c. Pk., \$2.50.

DWARF GRAY SUGAR (Edible Pods).—Quite a favorite. Ft., 15c. Qt., 30c. Pk., \$2.50.

HEROINE PEAS.

HERBS—Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.

	Pkts.	Oz.	¼ lb.	Lb.
MARJORAM	5c.	15c.	40c.	\$1.25
ANISE	5c.	10c.	25c.	.....
BASIL	5c., 10c.	15c.	.....	.....
BENE, use medicinally	5c.	15c.	.....	.....
BORAGE, excellent for bees	5c.	15c.	40c.	1.25
CARAWAY	5c.	10c.	25c.	.....
CHERVIL	5c.	25c.	.....	.....
CHICKORY	5c.	10c.	25c.	1.00

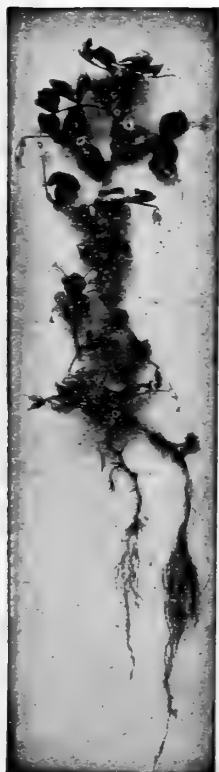
	Pkts.	Oz.	¼ lb.	Lb.
CORIANDER	5c.	10c.	25c.	\$1.00
DILL	5c.	10c.	25c.	.75
LAVENDER	5c.	15c.	40c.	1.25
FENNEL (Sweet)	5c.	10c.	25c.	.....
ROSEMARY, an aromatic herb	5c.	35c.	50c.	1.75
SAGE (American)	5c., 10c.	25c.	40c.	1.50
SUMMER SAVORY	5c.	10c.	40c.	1.25
THYME (broad-leaved English)	5c., 10c.	25c.	75c.	.....

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

FARMOGERM (High Bred Nitrogen Fixing Bacteria)

**MAKES Poor
Soil
Good Soil**

The FARMOGERM Method



TREATED
PEA VINE

DOES AWAY with the use of expensive fertilizers by using nature's method of supplying nitrates. Lime, potash and phosphates are comparatively cheap, and in many cases there is an abundant supply of these in the soil which can be made available for plant food if right methods are used—and the "Farmogerm Method" is the right method. If you wish to improve the condition of your land and grow bigger and better crops, send for book on the "Farmogerm Method." What it has done for thousands of people during the past two years it will do for you.

BUILDS UP the land to the highest state of fertility and productiveness. Don't give your plants stimulants when they want food. The Farmogerm method not only adds nitrates to the land but improves its physical condition. Nitrate of Soda is a temporary stimulant that soon leeches out of the soil and is not a permanent benefit. Farmogerm supplies at one tenth the cost not only enough nitrates for the growing crop but stores in the soil a large amount for future crops of other kinds.

IN THE GARDEN. Increase your crop of peas, beans and sweet peas from fifty to one hundred per cent. by treating the seeds with Farmogerm. A few minutes extra work and the expenditure of fifty cents means sweeter and better peas and beans, larger vines, heavily loaded with pods, and a longer bearing period. When you can gain so much for so little, isn't it worth while to try?

ON THE FARM. The practice of sowing clovers, cowpeas and soy beans in rotation with corn, wheat, cotton and other crops is of great benefit. You can double the benefit if you treat the seeds with Farmogerm and follow instructions for putting the land in suitable condition.

ALFALFA. The greatest forage crop grown—yields two to eight cuttings per year, an average of seven to twenty tons per acre. Contains one-third more protein (muscle building food) than clover, and in food value equals a full grain ration. Horses, mules, cattle, hogs and chickens relish it and fatten rapidly on it. The largest stock farms advocate its growth. Eighty per cent. of the farms of this country can grow it, if they use the "Farmogerm Method." You cannot grow alfalfa on wet, soggy land or land with a close lying, hard pan sub-soil; but how much of your farm is like that?

COST

Farmogerm is put up in bottles in the following sizes:

Garden size, containing material to treat the seeds for $\frac{1}{8}$ acre of land,	\$0.50	each
Acre size, " " " " " " " " " " " "	1	2.00 "
Five acre size, " " " " " " " " " " " "	5	9.00 "

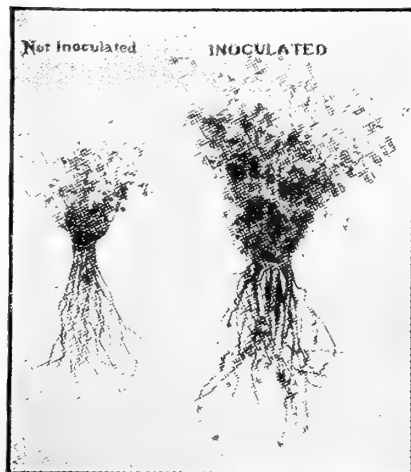
FOR THE FOLLOWING CROPS IN ACRE SIZES.

Red Clover,	Burr Clover,	Berseem,	Garden Beans,	Canadian Field Peas,
Mammoth Clover,	Sweet Clover,	Peanuts,	Garden Peas,	Soy Beans,
Crimson Clover,	Alsike,	Vetch,	Sweet Peas,	and all other
White Clover,	Alfalfa,	Lupins,	Cow Peas,	legumes.

IN GARDEN SIZE

for Peas, Beans and Sweet Peas; also a mixed culture good for all three.

IN ORDERING state what crop you wish to plant; quantity wanted, and ask for book on the **FARMOGERM METHOD.**



ALFALFA LIKES FARMOGERM

WHAT OTHERS HAVE DONE YOU CAN DO!

PROF. JACOB G. LIPMAN, of the NEW JERSEY AGRICULTURAL EXPERIMENT STATION, states that he got good results from the use of Farmogerm for Alfalfa, Cowpeas, and Garden peas.

E. B. FRED, VIRGINIA AGRICULTURAL EXPERIMENT STATION, says: "All of Old Process showed contamination. Mostly moulds. Farmogerm was entirely free from contamination."

WM. T. BROOKS, Director MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION, says: "In reply to your letter of the 21st inst., I beg to say that the only one of your cultures which we found it possible to try during the summer is the culture for alfalfa, and we are naturally unable to make a final report at this time."

We made four different comparisons between seed treated with your culture in accordance with directions and untreated seed and at the present time find that conditions are about as follows:

1. In the case of two of the comparative tests, the growth of the alfalfa which was sown early in August is materially better where your culture was used. It is ranker and of a darker green color.

2. In the case of the other two comparisons there is but little difference; but we judge that the alfalfa where the inoculated seed was sown is slightly better than the other.

3. Examination of the roots shows that in the case of all four comparisons, nodules are quite numerous on the roots where your culture was used, but relatively few where the uninoculated seed was sown.

W. S. SAYER, of the MICHIGAN STATE AGRICULTURAL COLLEGE, says: "Pure cultures of nodule bacteria suitable for the various legumes may be used in inoculating the seed just previous to sowing. This method has been used very extensively during the past three years, usually with marked success."

MAURICE MULVANIA, of the UNIVERSITY OF TENNESSEE, says: "I found the bottle of material sent me to contain a pure culture of living *Pseudomonas radicola*."

GEORGE W. CARVER, DIRECTOR TUSKEGEE INSTITUTE, ALA., says: "My plot of crimson clover which, was inoculated with Farmogerm is about three times better than the uninoculated; it is exceedingly luxuriant while the other is straggly, pale and not worth cutting."

EDWARD R. MINNS, INSTRUCTOR, CORNELL UNIVERSITY, N. Y., says: "We are studying the problem of producing more and better forage per acre by planting beans with corn intended for silage, and so far we feel quite certain that some form of inoculation for the beans is necessary to success."

J. N. HARPER, DIRECTOR, SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, says: "I have your letter of Oct. 21st with the enclosed letters from gentlemen who have tried your Farmogerm, and found it to be of great value. We have tested Farmogerm in a small way and from the results obtained are very much pleased with it."

CHAS. B. MORREY, of the OHIO STATE UNIVERSITY, says: "In reply to your inquiry concerning the cultures which you sent me last spring for test, I will say that as you remember, the cultures were to be used for laboratory tests only, and not for field experiments. The cultures were given to advanced students, to have them isolate the organisms if present, and to make pot cultures of the different varieties of legumes to determine whether the organisms were virulent or not. The organisms were obtained in pure culture from each sample sent. The pot experiments also show that the cultures were virulent in that nodules were formed on the plants tested while the control pots showed no nodules. The experiments were satisfactory in every respect."

L. B. JUDSON, N. Y. COLLEGE OF AGRICULTURE, says: "I take pleasure in stating that I have every confidence in your method of preparing cultures of bacteria for inoculating the various leguminous crops. I believe that the processes you use have all the value you claim for them, and that your method of air bottles in which you send out cultures, is a very valuable device."

Your work to me seems full of great promise for the farming industry."

F. O. CLARK, BEREA COLLEGE, KY., says: "Your letter of October 21st inquiring as to the results obtained from the use of Farmogerm, is at hand. In our school garden we planted several plots in sweet peas and Canadian Field Peas, using Farmogerm on every other plot. I was quite surprised to find the plants grown in the plots where Farmogerm was used, were nearly twice the size of those on the other plot. This test indicates that your bacteria are of the right sort, and well put up. Wishing you success in extending the use of Farmogerm and thus the use of legumes."

RED CLOVER



See the Difference in Growth.

Scottsbluff, Neb., Oct. 13, 1909.

Gentlemen:—I am in receipt of your letter of October 8th, inquiring as to the results I obtained this season by the use of Farmogerm for inoculating alfalfa seed. I take much pleasure in advising you that I am an enthusiastic convert to Farmogerm, and that the results secured by its use were all that the most exacting could ask for. This stand was the best that I have ever seen and after harvesting sixty bushels of oats per acre that weighed 40 pounds to the bushel, which I planted as a cover crop with the alfalfa, I irrigated the land and have just cut a crop of alfalfa of good quality and fair yield. The full benefit from the use of Farmogerm will make itself even more apparent, I am confident, in the growth and yield of hay next season.

I would suggest except under irrigation, where water can be applied to the land just as needed, no grain be planted with the alfalfa as a cover crop, and that in all instances, the land be carefully prepared and the seed be planted very shallow. Many fail to secure a good stand of alfalfa by putting in seed too deep. With kind regards, and best wishes for your continued success, believe me,

Very truly yours, (Signed) HEYWARD G. LEAVITT.

P. S.—I planted 400 acres in all to alfalfa, all of the seed for which was treated with Farmogerm.

Grand Valley, Colo., Nov. 8, 1909.

Earp-Thomas Farmogerm Co.

Dear Sirs:—Your Company has been recommended to me by H. G. Leavitt, of Scottsbluff, Neb. I am writing to ask you to send me some of your pamphlets or any information that you may have in regards to using your bacteria with alfalfa seed. We will plant about 200 acres of alfalfa in the spring, and I would like very much to use your bacteria in connection with the seed, as I have seen some wonderful results around Scottsbluff, Neb.

Hoping to have an early answer,

Yours truly,

(Signed) R. HAVEMEYER.

Scottsbluff, Neb., Dec. 6, 1909.

Earp-Thomas Farmogerm Co.,

Gentlemen:—It is my intention to plant between 400 and 800 acres in alfalfa this spring and I should like to inoculate all of the seed and, as you know am favorably inclined towards your "dope" as my foreman calls it. As you suggest, will you please send me a special estimate on quantities furring from 400 to 800 acres, and oblige,

Yours very truly, (Signed) HAYWARD G. LEAVITT.

Fresno, Calif., Oct. 15th, 1909.

Gentlemen:—In reply to your letter asking me as to results from the use of Farmogerm, I wish to say that while I did not make any tests, and the alfalfa area of my vineyard is only limited still the seed came up satisfactorily where I had applied Farmogerm and very unsatisfactorily on a strip alongside a ditch where no Farmogerm was applied. So I have no hesitancy in saying that I believe the Farmogerm to be all you claim for it.

Yours very truly, (Signed) J. G. FUNCH.

I take pleasure in advising you that my alfalfa treated with Farmogerm came on finely this spring.

G. C. SEVEY,

Editor New England Homestead, Springfield, Mass.
Ghent, N. Y., Oct. 11, 1909.

The Earp-Thomas Farmogerm Co.

Gentlemen:—I put in a piece of alfalfa at Orchard Farm the past summer that has made a most remarkable growth. On July 1st 1,500 pounds of lime was applied per acre and the same amount of basic slag. The seed was inoculated with the alfalfa bacteria you sent and sown on the 20th of July.

In forty-seven days the plants reached twenty-seven inches in height and in sixty days when cut they measured thirty-two inches. This is equal to any acre of irrigated alfalfa in the country. Shall put in more of it next year.

Yours truly, (Signed) GEORGE T. POWELL.

Ivanhoe, N. C., Oct. 20, 1909.

Gentlemen:—In reply to your inquiry of the 8th inst., I will say that I used Farmogerm according to the instructions given on cowpeas; planting the same between corn on various kinds of land. Old worn out sand-land with yellow subsoil, stiff clay land, and black friable land. The season was very unfavorable; soon after planting there was a long wet spell followed by a drought that has lasted until the present time. The consequence of the season is, many of the pea plants died from want of moisture and the weed is small but quite full of fruit, averaging a very fair crop. All these lands are old worn land that will not produce peas of itself, so I feel repaid for my trouble and expense in using Farmogerm, notwithstanding the unfavorable circumstances. The corn also was considerably benefited by Farmogerm. I consider it more beneficial to growing crops than any commercial fertilizer I have tried.

Yours truly, (Signed) E. E. SESSOMS.

Liberty, N. Y., Oct. 10, 1909.

Gentlemen:—Yours of the 8th before me and in reply am glad to say that I received a very fine stand of clover from seed inoculated with Farmogerm. The land is of a clay, not very heavy, was well limed, sowed to buckwheat which was plowed in green, then last fall the piece was sowed to rye and timothy. This spring the clover inoculated with Farmogerm was sown broad-cast and it is now looking like a well-kept lawn, rich green. The clover looks remarkably healthy and growthy.

I will need some more Farmogerm early next spring.

Respectfully, (Signed) R. P. WATSON.

FOR SALE BY

Griffith & Turner Co.,

205 N. Paca Street,

Baltimore, Md.

PEPPER or CAPSICUM



Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

Large Bell or Bull Nose Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild flesh, of excellent quality for use in salads and pickles; color bright red when ripe. **Pkts., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

Ruby King An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.**

Sweet Mountain Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully mature of a rich red color. Flesh very thick, sweet and mildly flavored. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

Chinese Giant Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily. **Pkt., 10c. Oz., 40c. ¼ lb., \$1.25.**

Long Red Cayenne A well known variety, having a slender, twisted and pointed pod about four inches long, and when ripe, bright red in color. Extremely strong and pungent flesh. **Pkts., 5c. and 10c. Oz., 35c. ¼ lb., 60c.**

Red Cherry Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental. **Pkts., 5c. and 10c. Oz., 25c.**

Red Chili Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. **Pkts., 5c. and 10c. Oz., 25c.**

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO'S MARYLAND SWEET POTATO.

This is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious. **Pkt., 5c. Oz., 15c. ¼ lb., 20c. Lb., 60c.**

LARGE CHEESE.—Skin reddish orange, flesh thick, fine and sweet. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.**

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.**

CONNECTICUT FIELD.—Very productive and grown for feeding stock. It is so well known that it does not need description. **Pint, 15c. Quart, 20c. Lb., 25c.**

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well. **Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.**



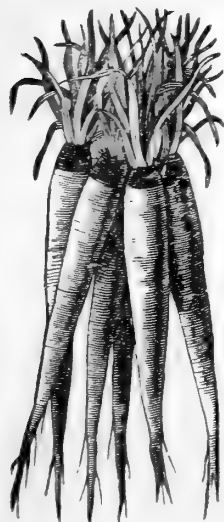
G. & T. CO'S
MARYLAND SWEET POTATO.

SALSIFY or Vegetable Oyster

Sow in early spring in light, rich soil in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. **Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.**

LARGE WHITE.—The old well-known variety. **Pkts., 5c. and 10c. ¼ lb., 40c. Lb., \$1.00.**



VEGETABLE ROOTS **ASPARAGUS ROOTS**

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Barr's Mammoth.—Per 100, 75c. Per 1000, \$5.50.

Palmetto.—Per 100, 70c. Per 1000, \$5.00.

Colossal.—Per 100, 70c. Per 1000, \$5.00.

Mammoth White.—Per 100, 75c. Per 1000, \$5.50.

ARTICHOKES

Jerusalem.—Pk., 75c. Bus., \$2.50. For further information see page 1.

HORSE RADISH ROOTS

Doz., 20c. Per 100, 75c. Per 1000, \$6.00.

RHUBARB ROOTS

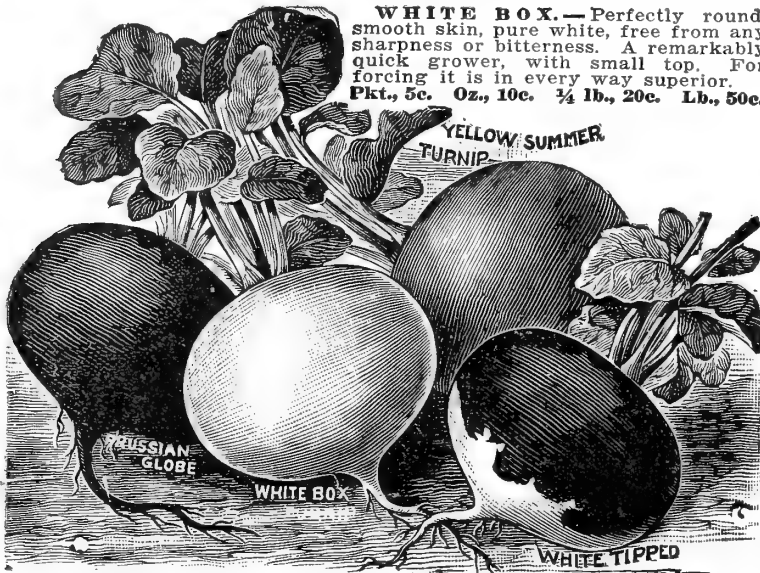
15c. each. Doz., \$1.50.

RADISH

ONE OUNCE
WILL SOW
100 FEET
OF DRILL.

WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing it is in every way superior. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

YELLOW SUMMER TURNIP.



FOR an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly it will be hard, fibrous and disagreeably pungent.

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$2.00.

EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

FRENCH BREAKFAST.—Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLY RED TURNIP.—Turnip shaped; red skin; for forcing. Sometimes called Red Button Radish. Pkt., 5c. ¼ lb., 15c. Lb., 50c.

TRIUMPH RADISH—Striped, Red and White.—This is a beautiful and odd Radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasant contrast. The Radishes are globe-shaped and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. Pkt., 5c. Oz., 10c. ¼ lb., 25c.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

LONG VARIETIES

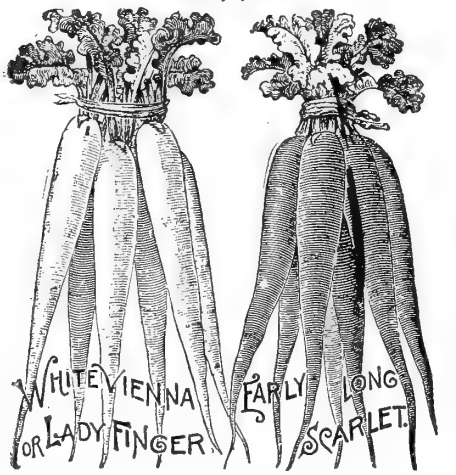
CINNAMATI MARKET NEW GLASS RADISH.—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 45c. 5 lbs., 40c. lb.

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape; color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

LONG SCARLET (Finest Grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.



CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

WHITE CHINESE WINTER, OR CELESTIAL.—An excellent white winter Radish; a good keeper.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

SUMMER VARIETIES

LARGE WHITE SUMMER, The Great Summer Radish.—This is the most popular white Radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

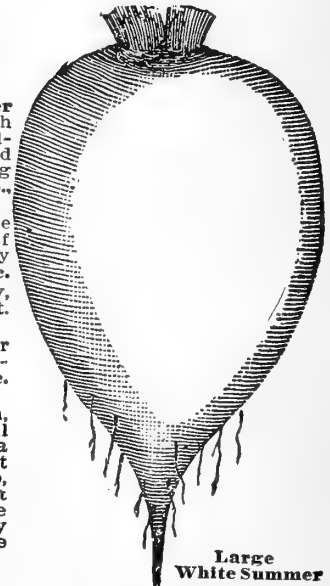
GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE DELICACY.—This excellent Radish, introduced by us recently, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

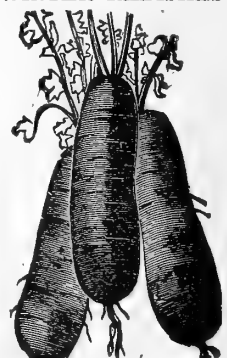
Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.



Large White Summer

WINTER RADISHES



Winter Varieties

LONG BLACK SPANISH.—A large winter variety; one of the hardiest, with dark green leaves, firm in texture, keeping until spring.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

LONG WHITE SPANISH (Winter).—Fine keeping quality.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND WHITE SPANISH.—A good fall or winter variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND BLACK SPANISH.—A fine globe-shaped Radish, very popular with the Germans, known as Rettig; good quality.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

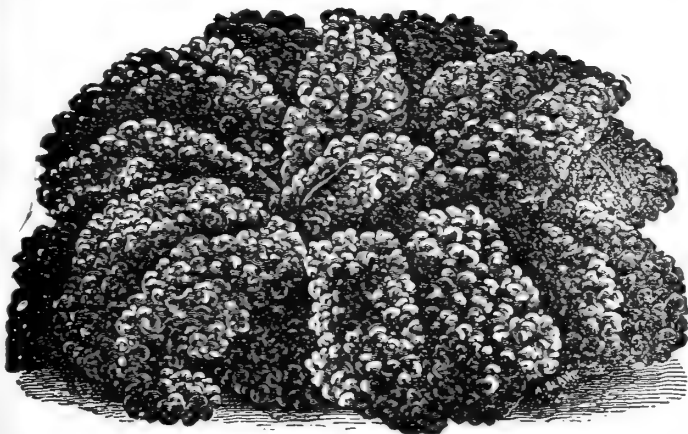
Rhubarb or Pie Plant

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate. In the fall or following spring transplant into deep, rich soil three feet apart each way.

Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

SPINACH

All Prices of Seeds in This Catalogue are Subject to Change Without Notice



THIS is quite an important crop with market gardeners, and one easily managed.

For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

LARGE ROUND-LEAVED VIROFLAY.—A new sort, with very large, thick leaves.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. Lb., 20c.

LONG STANDING.—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. Lb., 20c.

CURLED SAVOY, or BLOOMSDALE.—The leaves are fine-curved, large, thick and heavy, and are produced in great numbers.

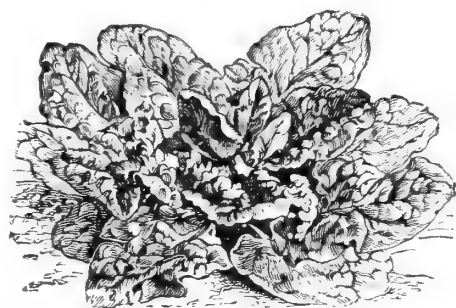
Pkt., 5c. $\frac{1}{4}$ lb., 10c. Lb., 20c.

G. & T. CO'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.—This is grown especially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 30c.

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; but the most remarkable feature that will make it of special value, both for market and family gardens, is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. Lb., 20c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.



SQUASH

THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

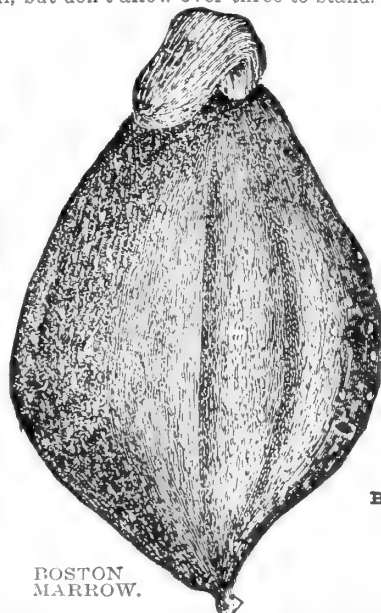


EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

EARLY YELLOW BUSH SCALLOP.—An early, flat, scallop-shaped variety; color yellow, flesh pale yellow and well flavored; very productive; used when young and tender.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.



BOSTON MARROW.



SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

HUBBARD.—Fine and desirable for winter use. Pkt., 5c. Oz., 15c. $\frac{1}{4}$ lb., 20c. Lb., 65c.

BOSTON MARROW.—A fall and winter variety very popular in the Boston market. Of oval form, skin thin; when ripe, bright orange mottled with light cream color; flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as Hubbard. Fine for pies or baking.

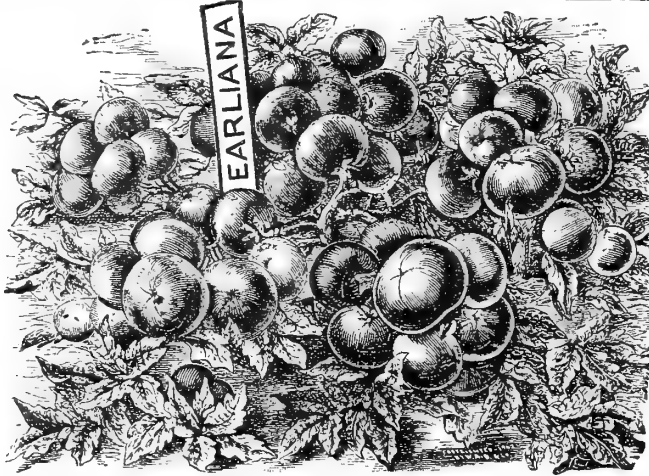
Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TOMATO—Extra Early Red Varieties

For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.



SPARKS' EARLIANA.—The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid.

Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.

EXTRA EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 40c. Lb., \$1.50.

MAGNUS.—A fine medium crop variety; has Acme color; heavy; solid; fruit is set in clusters; heavy cropper and very robust.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.25.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple.

Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

MEDIUM EARLY VARIETIES

PRIZEWINNER.—Purple; early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop.

Pkt., 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$1.75.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality.

Pkt., 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00.

ACME.—Purple; early; medium; pink-purplish; slightly oval.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red.

Pkt., 10c. Oz., 35c. $\frac{1}{4}$ lb., 75c.

BUCKEYE STATE.—Purple; productive, but not very solid; large, smooth.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

GOLDEN QUEEN, or SUNRISE.—Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c.

LORILLARD.—Best for greenhouse forcing; bright, glossy red; very smooth. Pkt., 10c.

SMALL FRUITED VARIETIES

PEAR-SHAPED RED.—Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c.

PEAR-SHAPED YELLOW.—Used for preserves and pickles.

Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c.

YELLOW PLUM.—Color bright yellow; excellent for preserving. Pkt., 5c. Oz., 25c. $\frac{1}{4}$ lb., 75c.

CHALK'S EARLY JEWEL.—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.

MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size; excellent for shipping.

Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ lb., 75c.

EARLY MICHIGAN.—Vines large, with large, dark green leaves, vigorous and wonderfully productive; under high culture one of the heaviest croppers; fruit medium to large size; unlike most varieties, grows larger as the season advances; perfectly smooth, solid, but without core; deep rich red color; of excellent flavor. Its first fruits are very early, but the vines continue to bear for a long time.

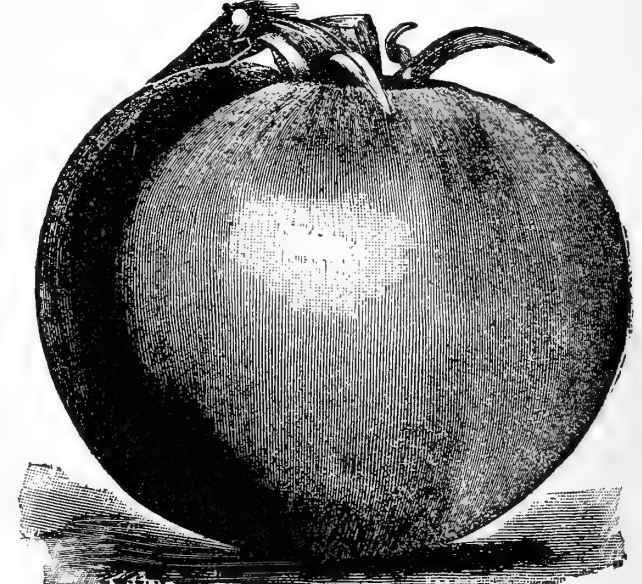
Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of finest quality, handsome appearance, large size and great productiveness. The vines are of strong, vigorous growth, with abundant foliage; fruit set in clusters; color brightest scarlet; perfectly smooth and free from cracks; the interior is very meaty, of fine flavor. It ripens with the second earlies and yields abundantly throughout the season. The handsome color, even size and great solidity of Success makes it an excellent market sort. It is well adapted also to canners' use by reason of rich deep red color, solidity of flesh and desirable form for rapid peeling without waste.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 40c. Lb., \$1.50.



EXTRA EARLY RUBY

This new variety came to our notice last season, and after giving it a thorough test we consider it the best all-round early Tomato in existence. While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper. We have secured a limited supply of the seed, and will only put them up in 10c. packages, $\frac{1}{2}$ ounces, ounces, $\frac{1}{4}$ pounds and pounds to enable it to be disseminated among a greater number of planters. The extremely large returns will fully justify the progressive trucker in trying a small quantity.

Pkg., 10c. Oz., 40c. $\frac{1}{4}$ lb., \$1.25. Lb., \$4.50.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

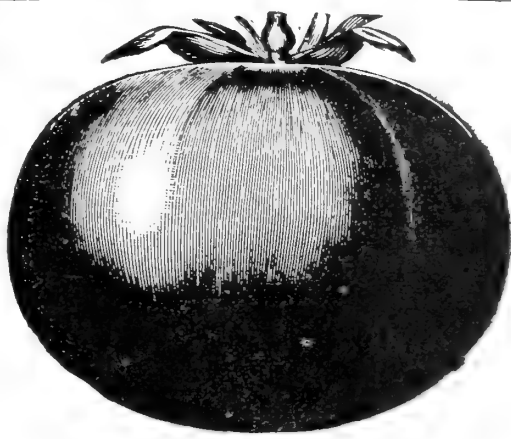
Bonny Best Early Tomato—New

BONNIE BEST EARLY TOMATO.—As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel, and within a day or two, if not quite as early as Spark's Earliana. Truckers who tested it claim it is as early as Earliana.

It is a vigorous grower, very prolific, with dense foliage, which protects the fruits from hot sun when other varieties like the Earliana have scalded fruits. The fruit is even size, smooth, round, red, of delicious flavor, ripening to stem.

It does not have the green surface like the Earliana and other extra early varieties. **Pkts., 5c. and 10c. Oz., 40c. ¼ lb., \$1.25. Lb., \$4.50.**

Main Crop Varieties



NEW QUEEN TOMATOES.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 35c. Lb., \$1.25.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

PARAGON.—Well-known standard bright red Tomato.

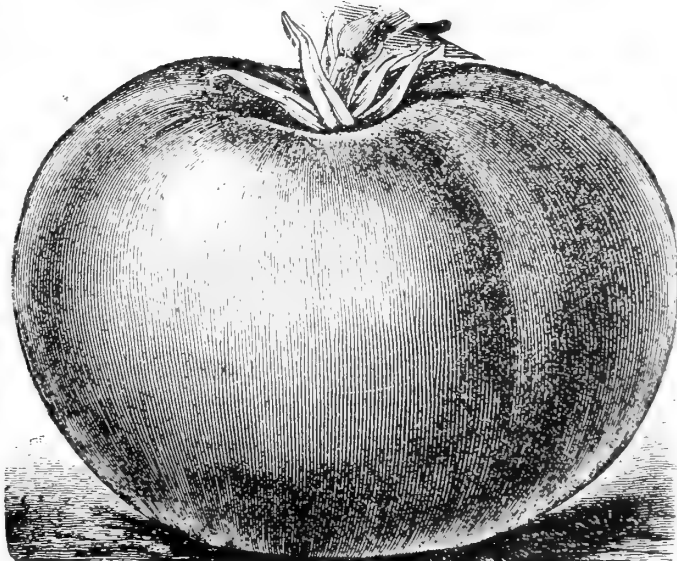
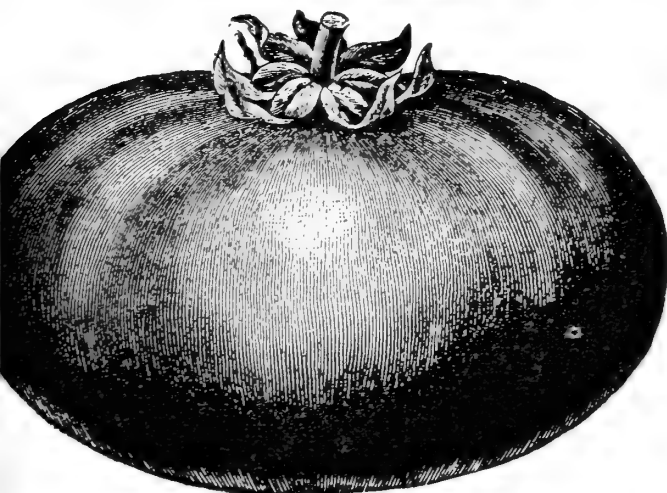
Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 35c. Lb., \$1.25.

ROYAL RED.—New; resembles Favorite in form and color; good main crop variety.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color, very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.



Griffith & Turner Co's. World's Fair

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unequalled.

The planters now demand this great Tomato, notwithstanding the fact that there are many much newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

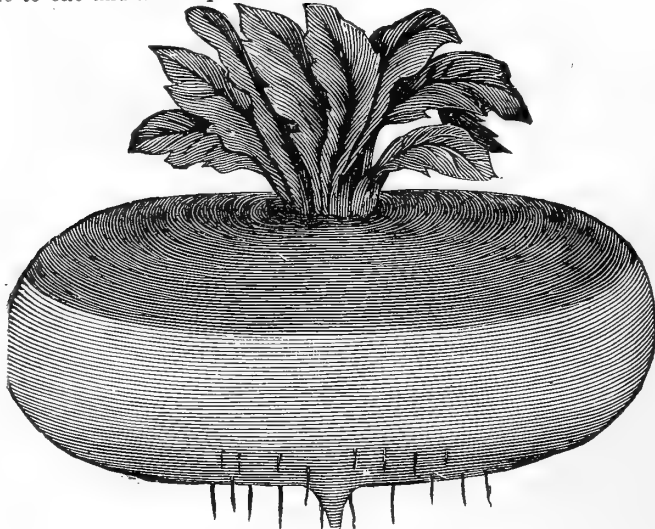
Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TURNIP

excepting in very dry weather.

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly. Select light, and, if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



WHITE AND PURPLE TOP STRAP-LEAF.

EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

EXTRA EARLY PURPLE TOP MILAN.—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 25c. Lb., 50c.

WHITE FLAT (Strap Leaf).—Differs from Red Top only in color.

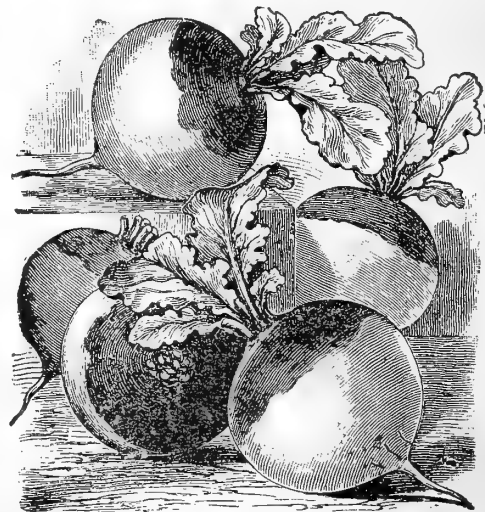
Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

EARLY WHITE EGG.—A new variety of rapid growth; egg-shaped and white, as its name indicates.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 25c. Lb., 50c.

COW HORN (Large Croppers).—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

Oz., 5c. $\frac{1}{4}$ lb., 15c. $\frac{1}{2}$ lb., 25c. Lb., 50c.



RED TOP WHITE GLOBE.

LARGE EARLY RED TOP GLOBE.—A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind. Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

YELLOW ABERDEEN, or SCOTCH YELLOW.—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

LARGE AMBER, or YELLOW GLOBE.—Grows to a large size; flesh yellow, firm and fine-grained. Excellent for either table use or feeding stock.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

SEVEN TOP.—For greens and salads. Used largely in the Southern States.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 30c.

SOUTHERN PRIZE.—True strain of the favorite Turnip for greens in Virginia and the Carolinas. Valued also for its bulk.

Oz., 5c. $\frac{1}{4}$ lb., 15c. Lb., 35c.

RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP.

Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardest, most productive and most nutritious variety in cultivation.

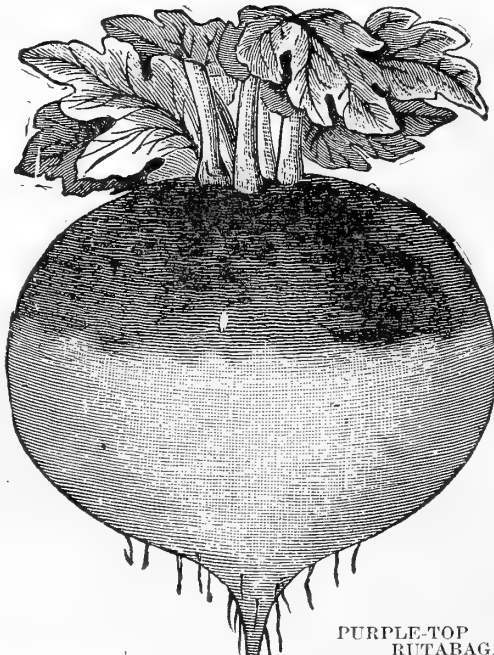
Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 35c.

PURPLE TOP RUTABAGAS.—An old standard sort of good quality.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 25c.

G. & T. CO.'S WHITE ROCK.—Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 20c. Lb., 40c.



PURPLE-TOP
RUTABAGA.

Second Crop Southern Grown Seed Potatoes

Are the product of the first planting in the spring, planted again as soon as dug, and the result from that planting stored away in the fall for next season's use.

The advantage derived from second seed over first crop is that they do not sprout or shrivel, or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches. The consequence is that all the growth goes into the tubers, which grow to full marketable size 12 to 15 days earlier than ordinary seed.

CROWN JEWEL.—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury, cooking evenly through. A very early bearer, and its keeping qualities are equal to the best. Ask for prices.

EARLY ROSE.—Ask for prices.

EARLY PURITAN.—A splendid early sort; fine, white and prolific, producing large crops of handsome, smooth tubers. Ask for prices.

Potato prices are subject to change without notice. Special prices quoted on application. Owing to the high price of barrels we are shipping potatoes in barrel sacks.

IF TURNIP SEED IS WANTED BY MAIL, ADD 9c. PER LB. FOR POSTAGE.

Maine or Northern Grown Seed Potatoes

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



G. & T. CO.'S EXTRA EARLY PRIZE.—This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first-class. We consider it the best early Potato on the market today.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember, that this stock is not to be confounded with the old run-out Rose grown in other sections.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.00.

EARLY BOVEE.—One of the earliest varieties; good size, very smooth; uniform, perfect shape; eyes shallow; light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

CROWN JEWEL.—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

BEAUTY OF HEBRON.—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

EARLY PURITAN.—A distinct and early variety; both skin and flesh white; quality superb, dry and floury; immense cropper. Fine for market gardeners.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

EARLY HARVEST.—This beautiful new early Potato is a heavy yielder for an early variety; good size, nearly white. A good one for the market garden.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

G. & T. CO.'S BOUNTIFUL.—The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test, and are convinced of its superior qualities. A heavy cropper, yielding large, smooth, handsome tubers. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.50.

IRISH COBBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection, and find after two years' experience that it is a very superior variety. Don't fail to get it.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.75.

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.00.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.00.

BURBANK.—This is an old and reliable variety, and is a No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.25.

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name.

Peck, 60c. Bushel, \$1.50. Barrel Sack, \$3.50.

GREEN MOUNTAIN.—A fine late sort.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$3.25.

SWEET POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

FIELD CORN

CHESTNUT GROVE YELLOW CORN.—This corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. Qt., 15c. Peck, 75c. Bus., \$2.25.

G. & T. CO.'S MAMMOTH YELLOW CORN.—The largest, most prolific yellow corn in existence; the ears attain an average length from 12 to 15 inches, and make a crop in 110 to 120 days, growing medium-sized fodder; very deep grain. Qt., 15c. Peck, 75c. Bus., \$2.25.

NEW MARYLAND YELLOW DENT.—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. Qt., 15c. Peck, 60c. Bus., \$2.25.

IMPROVED EARLY LEAMING.—Bred and tested for 10 years. Pedigree stock. An early selected variety of yellow corn; small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. Qt., 15c. Peck, 60c. Bus., \$2.25.

G. & T. CO.'S IMPROVED GOLDEN BEAUTY.—A large, broad-grained yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. Qt., 15c. Peck, 60c. Bus., \$2.25.

90-DAY YELLOW.—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. Qt., 15c. Peck, 60c. Bus., \$2.25.

GIANT BEAUTY YELLOW CORN.—Produces large ears from ten to fourteen inches in length; deep grain, small red cob. Good sized fodder, with blades very wide. Matures from 115 to 120 days. One of the heaviest yielders yet introduced. Price: Qt., 15c. Peck, 75c. Bus., \$2.25.

SPRINGWOOD YELLOW CORN.—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8 1/2 feet high, and produces a great many stalks with two ears. A fine early corn. Qt., 15c. Peck, 75c. Bus., \$2.25.

MAMMOTH YELLOW ENSILAGE CORN.—Especially adapted for ensilage, as it grows large fodder and blades; preferred by many to the white. Qt., 15c. Peck, 60c. Bus., \$2.25.

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. Qt., 15c. Peck, 60c. Bus., \$2.25.

EXCELSIOR WHITE CORN.—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. Price: Qt., 15c. Peck, 75c. Bus., \$2.25.

SOUTHERN SNOWFLAKE.—A well-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land. Qt., 15c. Peck, 60c. Bus., \$2.25.

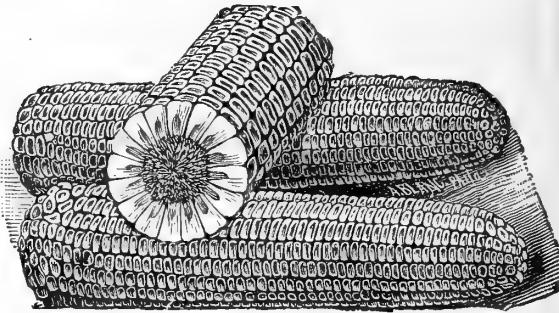
90-DAY CORN (White with Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. Qt., 15c. Peck, 60c. Bus., \$2.25.

HICKORY KING WHITE CORN.—Produces very large, broad, flat, white dent grains, which are closely placed on a very slender cob. Qt., 15c. Peck, 60c. Bus., \$2.25.

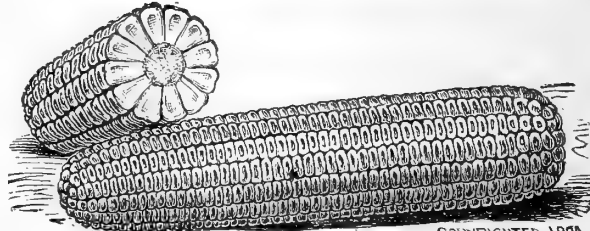
WHITE ENSILAGE CORN.—Specially adapted for ensilage. Bus., \$1.75.

POP CORN.—The best kind for popping. Lb., 10c. 3 lbs., 25c. By mail, 20c. per lb.

POP CORN POPPERS.—15c. each.

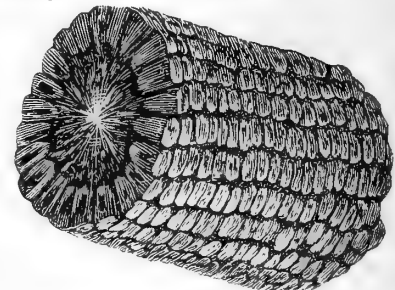


Golden Beauty



Maryland White Dent.

COPYRIGHTED 1884



Chestnut Grove.

SEED OATS

IMPROVED WHITE TARTAR

The most remarkable Oats now under cultivation. Our customers say they will sow no others. This grand Oats outyields all others. The very best for all-round purposes. The earliest variety grown, longest straw, usually averaging 4 to 5 feet. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather without lodging or the falling off of the grains. A measured bushel weighs from 36 to 42 pounds. Would highly recommend this Oats to all our customers. Change your seed this season. Bushel of 32 lbs., \$1.00.

WHITE SEED OATS

For spring sowing. 32 pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the Western plains. Peck, 40c. Bushel, \$1.50.

SILVER HULL.—Same price as above.

BARLEY

BEARDLESS SPRING BARLEY.—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easily as oats and makes a stronger feed. Write for prices.

FALL BARLEY.—Sow about first of September before sowing wheat in order to get best results. Write for prices.



WRITE FOR PRICES ON FIELD SEEDS IN QUANTITY.

High-Grade Grass Seeds

TIMOTHY (*Phleum pratense*.)

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timothy is either the Sapling or Alsike, as they mature and ripen with timothy. Pound. 12c. Peck, \$1.35. Bushel of 45 lbs., \$4.75.

RED TOP, OR HERD'S GRASS (*Agrostis vulgaris*). This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

CHAFF RED TOP.—Seed in chaff.

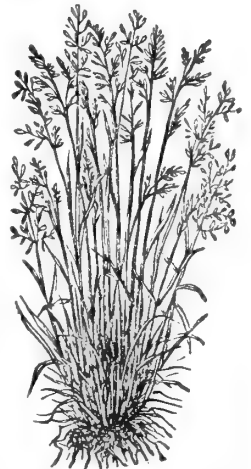
UNHULLED RED TOP.—Seed in hull, but free of chaff and impurities.

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

Chaff Red Top.—Sow 4 to 6 bushels to the acre, 10 lbs. to bushel. Price, 40c. bus.

Unhulled Red Top.—Sow 2 to 3 bushels to the acre, 14 lbs. to the bushel. Price, 1b., 15c.; bus., \$1.40; 100 lbs., 9c. lb.

Fancy Cleaned Red Top.—Sow 12 to 15 lbs. to the acre. Price, 20c. lb.; \$18.00 per 100 lbs.; bushel of 32 lbs., \$5.80.



RED TOP GRASS.

TALL MEADOW OAT GRASS (*Avena elatior*).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel.) Lb., 30c. 100 lbs., \$25.00.

CREeping BENT GRASS (*Agrotis stolonitara*).—Excellent for lawns: succeeds well in all conditions; makes a low, velvety growth. Lb., 35c. Bus. (20 lbs.), \$6.00.

MEADOW FOXTAIL (*Alopecurus pratensis*).—Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the bushel; 3 bushels to the acre. Lb., 40c. Bushel, \$2.75.

SHEEP FESCUE (*Festuca ovina*).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. Lb., 25c. Bus., of 12 lbs., \$2.40.

ITALIAN RYE GRASS.—Is an annual, and should be sown every year at the rate of fifty pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. Bus., 20 lbs. Lb., 15c. 10 lbs., \$1.20. Per 100 lbs., \$10.00.

ENGLISH RYE GRASS (*Lolium perenne*).—This makes a quick growth very early in spring, and is adapted for cool, moist locations. 24 lbs. to the bushel; 60 lbs. to the acre. Lb., 15c. Bus., \$2.25.

CRESTED DOG'S TAIL (*Cynosurus cristatus*).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. 21 lbs. to bus. Lb., 40c. 10 lbs., \$3.50.

WOOD MEADOW (*Poa nemoralis*).—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. Lb., 65c. 10 lbs., \$6.00. 14 lbs. to bus.

RHODE ISLAND BENT GRASS (*Agrotis canina*).—A very fine variety for lawns. Lb., 40c.

SWEET VERNAL (*Anthoxanthum odoratum*).—True perennial; emits an agreeable odor, which it imparts to the hay. Lb., 90c.

AWNLESS BROME GRASS (*Bromus inermis*).—Comparatively a new grass in this country, but in Hungary (Europe), its principal home, it is the chief meadow grass of the sandy moorlands. It grows coarse, resembling Orchard Grass; prefers light, dry soil. It roots deeply, and stands protracted droughts well, and will thrive upon soils too poor and dry to grow anything else but broom sedge; hence is valuable for such situations. Both for grazing and hay, and especially in mixtures with other grasses. It has, however, been talked up very much in the agricultural press, especially in the West, and is worthy of extended trial. Sow at the rate of from 35 to 40 pounds per acre when sown by itself either in the spring or fall. Lb., 20c. Bus. of 14 lbs., \$2.25.

Orchard Grass

(*Dactylis glomerata*.)

One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. Price, 25c. lb. Bus. of 14 lbs., \$3.25.

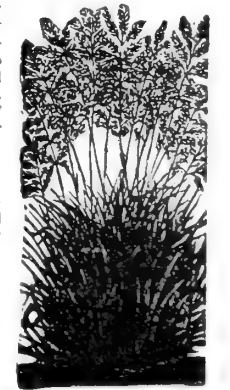
MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (*Festuca pratensis*).—This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. 22 lbs. to bus. Lb., 45c. 100 lbs., \$35.00.

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. Fancy, triple-cleaned. Per lb., 30c. Bus. of 14 lbs., \$3.75.

NOTICE.—Beware of cheap Canada Blue Grass, but if you want it we will supply same on short notice at low prices.

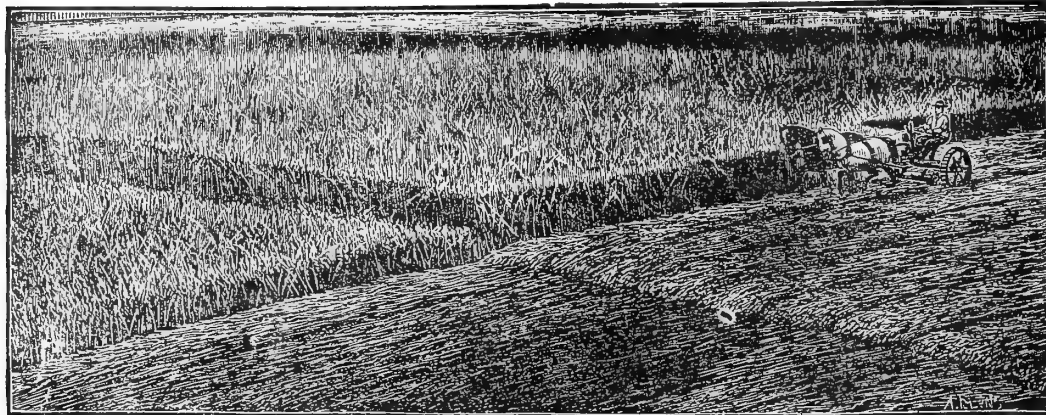


ORCHARD GRASS.



KENTUCKY BLUE GRASS

GRASSES AND CLOVERS



Our Permanent HAY and PASTURE GRASS

is prepared especially to meet the demand for a mixture that will be desirable either for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

Mixture for Upland.
14 lbs. to the bus., 3 bus. to the acre. Per bus., \$2.65; 10 bus. for \$25.00.

Mixture for Lowland.
14 lbs. to the bus., 3 bus. to the acre. Per bus., \$2.65; 10 bus. for \$25.00.

Grass and Clover Seed Mixtures FOR MOWING FOR HAY, BUT CAN BE GRAZED

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended.

They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended:

MIXTURE No. 1.

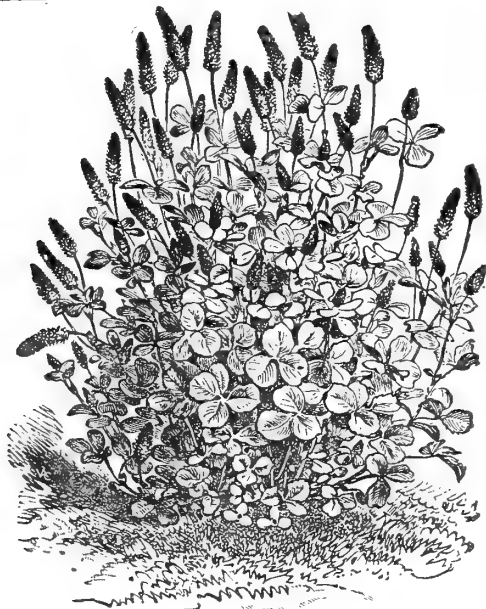
For Moist Bottom Land.

Sow 25 lbs. to the acre. Price, Lb., 25c. 10 lbs. and over, 20c. per lb.

MIXTURE No. 2.

For Light, Dry, Gravelly or Sandy Soils.

Sow 35 lbs. to the acre. Price, Lb., 25c. 10 lbs. and over, 20c. per lb.



The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 15 cents per pound; by mail, 25 cents per pound. Write for prices in quantity.

If any of the above wanted by mail, add 8c. per lb. for postage.

CLOVER SEED RECLEANED RED CLOVER

We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. 20c. lb. By mail, 30c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER

Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lb., 20c. By mail, 30c. Ask for prices in quantity.

LUCERNE OR ALFALFA CLOVER



LUCERNE.

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 lbs. to the acre.

Found \$.35
By mail45
10 pounds, by express 3.00

Special prices in large quantities on application.

WHITE DUTCH CLOVER

Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures.

¼ pound, 10c. ½ pound, 20c. 1 pound, 40c.
By mail, pound 50c.
10 pounds, by express, not prepaid \$3.50

CRIMSON CLOVER

THE GREAT NITROGEN GATHERER.

THE LAWN



PREPARATION and CARE OF LAWNS

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

Griffith & Turner Co.'s Evergreen Lawn Grass

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut, velvety lawn; hence the im-

portance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. Pint, 10c. Quart, 20c.; by mail, 25c. ½ Peck, 65c. Peck, \$1.10. Bushel of 20 pounds, \$4.00. By freight or express, not prepaid.

PARK LAWN GRASS

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. Qt., 20c. Peck, \$1.00. Bus. of 16 lbs., \$3.00.

OUR LAWN GRASS SHOULD NOT BE CONFOUNDED WITH THE CHEAP, CHAFFY GRASSES OFFERED AT LOW PRICES.

Griffith & Turner Co.'s Golf Link Mixture

Bushel.....\$3.00 Ten-Bushel Lots.....\$2.75

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors.

It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel.

SHADY NOOK GRASS

On nearly all lawns there are bare spots under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state.

Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake.

Price: Lb., 35c. 5 lbs., \$1.65. Bushel of 20 lbs., \$6.00. Add 8c. for postage.

"TERRACE" SOD MIXTURE

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the season. Qt., 35c. Peck, \$2.00. Bushel of 20 lbs., \$7.00. Delivered free anywhere in America.



PAT. AUG. 4, 1906.

BARR LAWN TRIMMER

Used for trimming grass from edges of sidewalks, under plants, shrubs, hedge fences and other places where it is impossible to get a lawn mower. No bending of back and crawling around on the knees.

Price, \$1.25.



WHITE DUTCH CLOVER

(Trifolium Repens.)

See page 32.

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone; half the quantity when sown with other grasses.

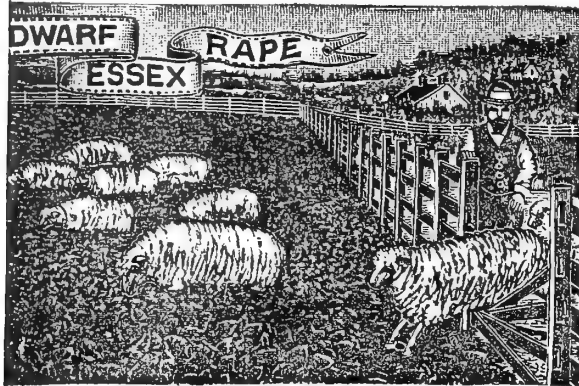
Pound, 40c. By mail, 50c. 10 pounds by express, \$3.50.

FORAGE AND SILO SEEDS

For years we have taken special care in the selection of the various sorts of Grass and Clover Seeds for field culture, and in consequence our trade in this line has rapidly increased.

Purity of stock and high germinating quality we consider essential.

As we handle very large quantities of these seeds, we are enabled to supply the best quality at lowest prices.



MILLET

GERMAN, OR GOLDEN MILLET.

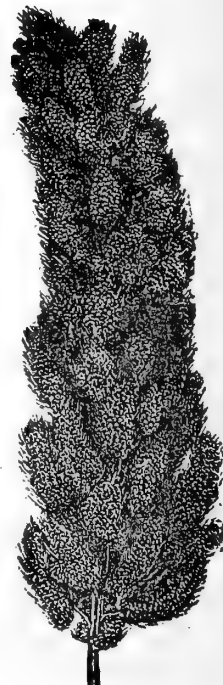
An improved variety, medium early, growing 3 to 5 feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive millet to grow. Price, **Lb., 10c. Pk., 60c. Bus. of 50 lbs. Ask for prices by the bushel.**

HUNGARIAN MILLET (*Panicum germanicum*).—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Price, **Lb., 10c. Pk., 60c. Bus. of 48 lbs. Ask for prices by the bushel.**

COMMON MILLET.—Weight, per bus., 50 pounds. Price, **Lb., 5c. Pk., 60c. Ask for prices by the bushel.**

DWARF ESSEX RAPE

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. **Lb., 12c.; by express, 10 lbs. and over, 10c. lb., not prepaid; \$9.00 per 100 lbs. If wanted by mail, add 8c. per pound for postage.**



MILLET

SORGHUM, OR SUGAR CANE

EARLY AMBER grows 10 to 12 feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. **Lb., 10c. Pk., 60c.**

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons.

Prices same as Early Amber.

VETCHES OR TARFES —**SPRING VETCHES** (*Vicia sativa*).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 to 3 bushels to the acre. Sow in spring while ground is cool and moist, or in early autumn. **Lb., 10c. Peck of 15 lbs., \$1.25. Bus. of 60 lbs., \$4.00.**

WINTER VETCHES (*Vicia villosa*).—Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 1 to 2 bushels per acre. **Lb., 15c. Peck of 15 lbs., \$1.50. Bushel of 60 lbs., \$5.50.**

BROOM CORN —50 lbs. to Bushel.—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet. **Lb., 25c., postpaid. Peck, \$1.00. Bus., \$3.00.**

TEOSINTE.—A most valuable and enormous yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. **Oz., 10c. ¼ lb., 20c. Lb., 70c., postpaid.**

RUSSIAN SUNFLOWER.—Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. **Lb., 10c. 4 lbs., 25c. Add 8c. lb. by mail.**

KAFFIR CORN.—The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre. Price, **lb., 10c. 10 lbs., 50c. 100 lbs., \$2.50.**

FLAXSEED.—**Lb., 10c. 4 lbs., 25c. Bus., \$2.75.**

COW PEAS

THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.

Prices on application.

BLACK COW PEA.—It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious food. Sow in May or June at the rate of one bushel per acre for seed, or two bushels for soiling.

BLACK EYE COW PEA.—The Black Eye Cow Peas are very prolific and bring a good price on our market.

WHIPPOORWILL PEA.—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

WONDERFUL, or UNKNOWN.—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled Peas. This variety should be planted in May in order to come to full maturity.

SOJA BEANS

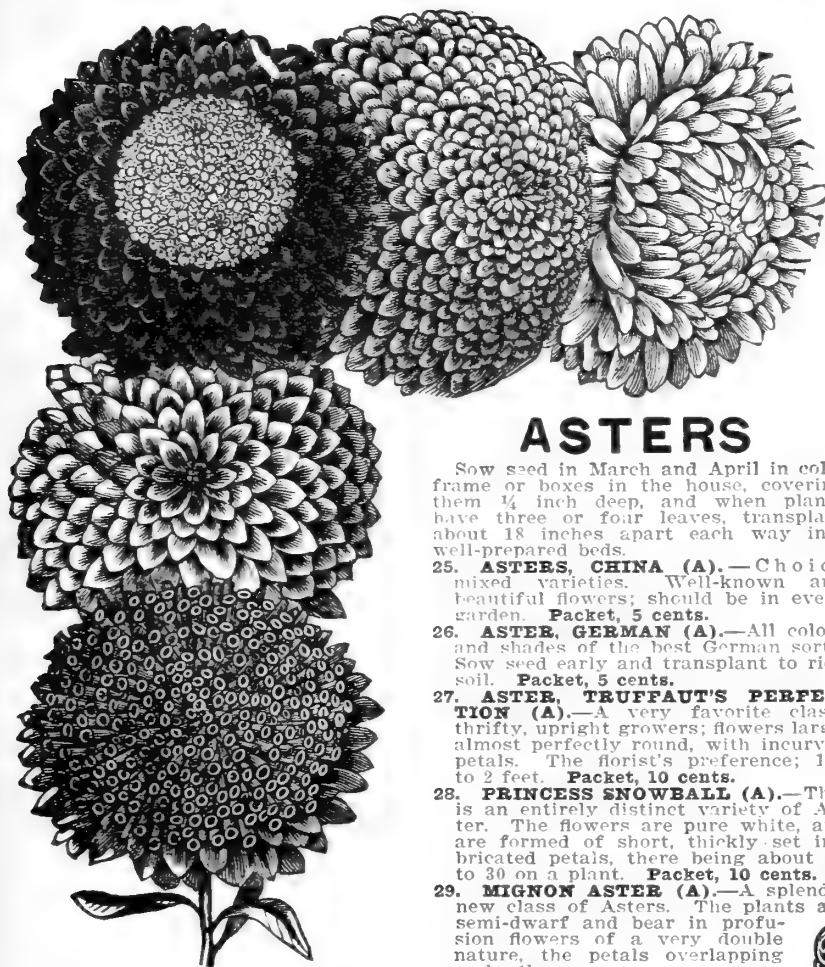
The great drought resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drills three feet apart and one foot between plants. Price on application.

CANADA FIELD PEAS

Sown in February, March or April, with a small quantity of oats, they make a large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half a bushel of oats. Cut for hay before the peas mature. **Peck, 75c. Bus., \$2.00.** Write for special prices if a quantity is required.



G. & T. Co.'s CHOICE FLOWER SEEDS



ASTERS

Sow seed in March and April in col frame or boxes in the house, covering them ¼ inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way into well-prepared beds.

25. ASTERS, CHINA (A).—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. **Packet, 5 cents.**

26. ASTER, GERMAN (A).—All colors and shades of the best German sorts. Sow seed early and transplant to rich soil. **Packet, 5 cents.**

27. ASTER, TRUFFAUT'S PERFECTION (A).—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet. **Packet, 10 cents.**

28. PRINCESS SNOWBALL (A).—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet, 10 cents.**

29. MIGNON ASTER (A).—A splendid new class of Asters. The plants are semi-dwarf and bear in profusion flowers of a very double nature, the petals overlapping each other. **Packet, 10 cents.**

30. VICTORIA ASTER (A).—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height, 15 to 18 inches. **Packet, 10 cents.**

31. COMET ASTER (A).—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum. **Packet, 10 cents.**

32. DWARF CHRYSANTHEMUM FLOWERED ASTER (A).—Grow 9 inches high; surpass all the dwarf varieties in size of flowers. **Packet, 10 cents.**

33. SEMPLE'S BRANCHING ASTER, MIXED (A).—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. **Packet, 10 cents.**

34. SEMPLE'S BRANCHING ASTER (A) (White).—Very choice. **Packet, 10 cents.**

35. BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centaurea Cyanus).—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet. **Packet, 5 cents.**

40. DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper, or Forget-Me-Not).—The well-known Balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. **Packet, 5 cents.**

41. BALSAM, PERFECTION WHITE (A).—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists. **Packet, 10 cents.**

45. CANDYTUFT, MIXED (A).—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering. **Packet, 5 cents.**

46. CANDYTUFT, WHITE (A).—Treated and used same as the mixed. **Packet, 5 cents.**

50. CALCEOLARIA DWARF (A).—This is a magnificent ornamental plant for greenhouse or conservatory, bearing in profusion pocket-snaped flowers of all colors, spotted and blotched in the most fanciful fashion. **Packet, 25 cents.**

53. CALENDULA, DOUBLE (A).—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter. **Packet, 5 cents.**

55. CANNA, MIXED (Extra Choice) (A).—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. **Packet, 5 cents.**

60. CANTERBURY BELLS, SINGLE MIXED (Campanula) (A).—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early and transplant in light, rich soil. **Packet, 5 cents.**

61. CANTERBURY BELLS, DOUBLE MIXED (F).—**Packet, 5 cents.**

ORDER BY NUMBERS

The letter "A" means annual.

The letter "P" means perennial.

Ten 5c. Papers, mailed, for 25c., or

Four 10c. Papers for 25c.

1. AGERATUM, MIXED (A).—Suitable for beds, and especially nice for cut flowers and bouquets. **Packet, 5c.**

10. ALYSSUM (A).—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season. **Oz., 20c. Pkt., 5c.**

11. ALYSSUM (A) (Tom Thumb).—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn. **Oz., 25c. Packet, 5c.**

20. AMARANTHUS, MIXED (A).—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals. **Packet, 5 cents.**

21. AMARANTHUS, TRI-COLOR (Joseph's Coat) (A).—Red, Yellow and Green foliage; 2 feet. **Packet, 5c.**

22. AMARANTHUS CAUDATUS (Love Lies Bleeding) (A).—Graceful and handsome flowers of blood-red hue. **Packet, 5 cents.**

24. ANTIRRHINUM, DOUBLE MIXED (P).—One of the most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial. **Packet, 5 cents.**



33.—SEMPL'S BRANCHING.

68a. CENTAUREA GYMNOCAEPA.—Fine cut silver-gray foliage; 1½ feet. **Packet, 5c. ¼ Oz., 10c.**

68. CENTAUREA CANDIDISSIMA.—Silver white; leaves broadly cut. **Packet, 5c. ¼ Oz., 10c.**

FLOWER SEEDS THAT GROW

69. CENTROSEMA GRANDIFLORA (P).—A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors.

Packet, 5c.

70. CHRYSANTHEMUMS, SINGLE, MIXED (A).—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties.

Packet, 5c.

71. CHRYSANTHEMUMS FRUTESCENS (A).—(The Marguerite, or Paris Daisy).—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white, star-like flowers under the most favorable conditions. Packet, 10c.

75. CINERARIA (Dusty Miller) (P).—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half-hardy perennials; two feet.

Packet, 5c.

76. CINERARIA HYBRIDA (P).—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. Packet, 25c.

77. CINERARIA HYBRIDA DWARF (P).—Large flowered, dwarf prize varieties; splendid strain.

Packet, 25c.

80. CLARKIA, MIXED (A).—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1½ feet.

Packet, 5c.

85. COCKSCOMBS (Celosia Cristata) (A).—Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half-hardy annuals. Packet, 5c.

86. COCKSCOMBS, GLASGOW PRIZE (A).—Immense, showy, dark crimson combs. 10c.

88. COWSLIP (P).—Packet, 10c.

89. CLEUS (A).—Very choice plants, with richly colored foliage of maroon, green, crimson, yellow, etc. Pkt., 25c.

90. CONVULVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October.

Packet, 5c.

93. COREOPSIS (Calliopsis) (P).—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom.

Packet, 5c.

93a. COREOPSIS LANCEOLATA (P).—IMPROVED (California Sunbeams).—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cuttings; will thrive in almost any situation.

Packet, 5c. ¼ Oz., 25c.

COSMOS

Large flowering. Sow early in spring, and transplant when danger from frost is past. The flowers are borne profusely and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised and make a grand display.

94. TINTS OF DAWN COSMOS (A).—This new variety comes into full bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers.

Packet, 10c. ¼ Oz., 20c.

96. CYCLAMEN-PERSICUM-GIGANTEUM, MIXED (P).—Charming plants, with beautiful foliage and rich colored, fragrant flowers. Packet, 25c.

97. DAISY, MIXED (P).—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house.

Packet, 10c.

98. DAISY LONGFELLOW (P).—This is a very pretty, large, double pink variety. Packet, 10c.

99. DAISY, SNOWBALL (P).—An unusually large-flowered variety, and produces very double, pure white flowers. Packet, 10c.



DAISY.

DAHLIA

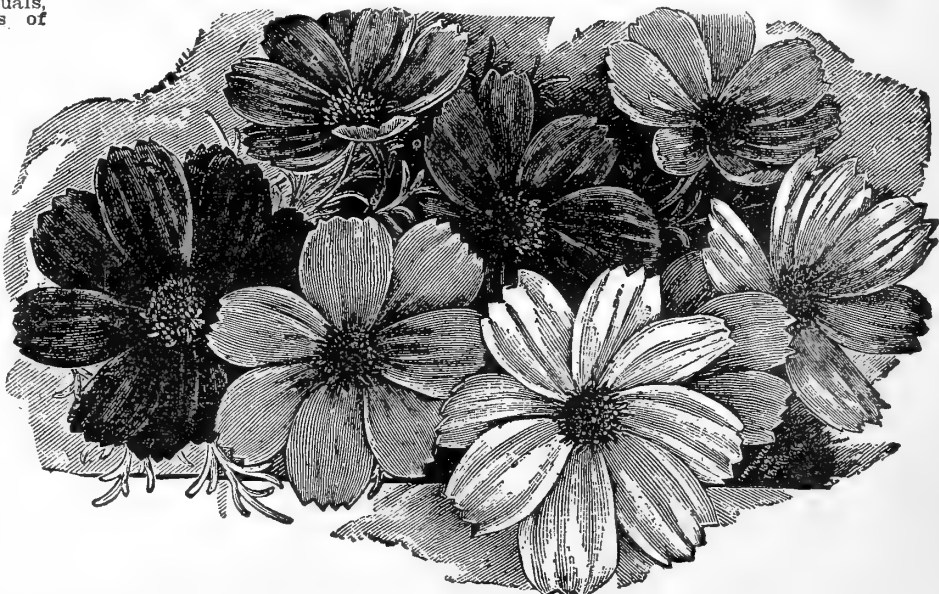
One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials; blooming the first year from seed, if sown early.

100. SINGLE MIXED (A).—Large, showy single flowers. Packet, 5c.

100a. CACTUS DAHLIA (A).—A most curious and desirable variety of many colors. Packet, 5c.

DAHLIA ROOTS AND PLANTS IN GREAT VARIETY.

See pages 44 and 45 in Plant Department for full description of the many kinds and prices.



95. COSMOS, Mixed (A).—Packet, 5c. Oz., 25 cents.

95a. COSMOS, Pink (A).—Packet, 5c.

95b. COSMOS, White (A).—Packet, 5c.

Ten 5c. Papers Mailed for 25c., or Four 10c. Papers for 25c.

DIANTHUS.—(See Pinks).

101. ETERNAL FLOWER (Helichrysum) (A).—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches and dried in the shade with their heads downward.

Packet, 5c.

103. FEVERFEW (GOLDEN FEATHER) (Fyarethrum Aureum) (P).—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. Packet, 5c.

105. FORGET-ME-NOTS (Myosotis) (P).—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early.

Packet, 5c.

106. FOXGLOVE (DIGITALIS) (P).—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet.

Packet, 5c.

107. GERANIUM (New Zonale) (A).—A grand strain of Geraniums, containing all shades of colors. Packet, 10c.

108. GODETIA—Finest Mixed (A).—Fine, profuse blooming, hardy annuals. Packet, 5c.

109. GAILLARDIA (A).—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals.

Packet, 5c.

110. GILIA MIXED (A).—Very pretty dwarf plants, early, free blooming, fine for massing and rock work. Hardy annuals. Packet, 5c.

111. GLOXINIA (A).—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors.

Packet, 25c.

95c. COSMOS, Crimson (A).—Packet, 5c.

95d. NEW MARGUERITE COSMOS (A).—One of the prettiest and daintiest varieties imaginable. Packet, 10c.

SELECTED FLOWER SEEDS

Ten 5c. Papers Mailed for 25c.,
or Four 10c. Papers for 25c.

112. **HELIOTROPE (A).**—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals. Packet, 5c.
115. **HOLLYHOCK, CHATERS SUPERB MIXED (P).**—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. Packet, 5c.
116. **HOLLYHOCK, CHATERS DOUBLE WHITE (P).**—Largely used by florists. Packet, 10c.
120. **LARKSPUR (Delphinium) (A).**—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. Packet, 5c.
121. **LARKSPUR EMPEROR (P).**—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. Packet, 5c.

LOBELIA

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers.

122. **MIXED VARIETIES (A).**—Packet, 5 cents.
123. **CRYSTAL PALACE COMPACTA (A).**—Rich deep blue. The finest for bedding. Packet, 10c.
125. **MARIGOLD, DOUBLE AFRICAN (A).**—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. Packet, 5c.
126. **MARIGOLD, DOUBLE FRENCH (A).**—Of compact habit, with numerous bright, showy flowers. Very fine. Packet, 5c.
130. **MAEVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).**—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. Packet, 5c.
131. **MATTHIOLA BICORNIS (A).**—Very fragrant at night. Packet, 5c.
133. **MESEMBRYANTHEMUM CHRYSALINUM (Ice Plant) (A).**—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. It belongs to the half-hardy annuals. Packet, 5c.
134. **MIMULUS.**—The beautiful Monkey Flower. Packet, 5c.

MIGNONETTE

125. **MIGNONETTE—SWEET (Reseda Odorata).**—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. Packet, 5c. Oz., 15c.
136. **MIGNONETTE—PYRAMIDAL.**—(Large flowered).—The largest flowered of all Mignonettes. Annual. Packet, 5c. Oz., 15c.
137. **MACHET MIGNONETTE.**—Well adapted for pot culture; dwarf pyramidal growth; bearing numerous flower stalks; one of the best. Packet, 10c. ¼ Oz., 20c. Oz., 50 cents.

138. **MIGNONETTE VICTORIA (A).**—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. Packet, 10c.

139. **ALLEN'S DEFIANCE (A).**—When grown under favorable conditions and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. Packet, 10c. ¼ Oz., 15c.

140. **GOLDEN MACHET MIGNONETTE (A).**—Distinct new variety of the well-known Machet of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. Packet, 5c. ¼ Oz., 10c.

DEFIANCE
MIGNONETTE.



NASTURTIUM.

NASTURTIUM

142. **DWARF MIXED.**—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. Packet, 5c. Oz., 10c.
143. **DWARF NASTURTIUM—AURO-RA.**—Blush white and salmon, blotched with garnet. Packet, 5c. Oz., 15c.
144. **DWARF NASTURTIUM—BEAUTY.**—Bright, scarlet, striped with yellow. Packet, 5c. Oz., 15c.
145. **DWARF NASTURTIUM (Empress of India).**—Very dark foliage, with deep crimson flowers. Packet, 5c. Oz., 20c.
146. **DWARF NASTURTIUM (Golden King).**—Brilliant yellow. Packet, 5c. Oz., 15c.
147. **DWARF NASTURTIUM (King of Tom Thumb).**—Brilliant yellow flowers, blotched with maroon. Packet, 5c. Oz., 15c.
148. **DWARF NASTURTIUM (Ruby King).**—Light ruby red. Packet, 5c. Oz., 15c.
149. **DWARF NASTURTIUM (Cloth of Gold).**—Golden yellow foliage, light scarlet flowers. Packet, 5c. Oz., 15c.

150. **KING THEODORE—DWARF.**—Black-brown foliage. Packet, 5c. Oz., 15c.
151. **CRYSTAL PALACE GEM.**—Sulphur, maroon spot. Packet, 5c. Oz., 15c.
310. **TALL NASTURTIUM.**—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling. Packet, 5c. Oz., 10c.

OXALIS

153. Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts. Packet, 10c.

PANSIES--ANNUALS

155. **PANSY HEARTS-EASE.**

Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; 6-inch. Pkt., 5c. ¼ Oz., 25c.

156. **PANSY GIANT TRIMAR-DEAU.**

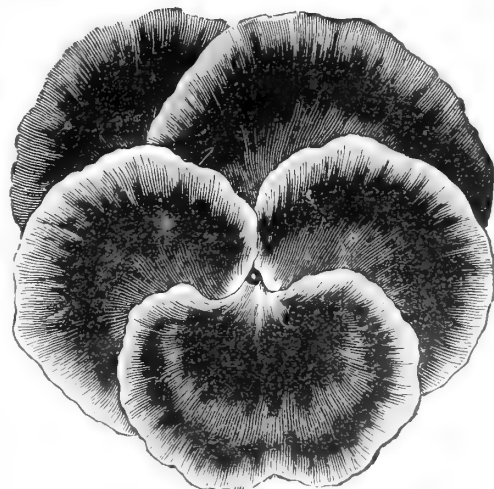
Remarkable for the extra large size of the flower and an endless variety of beautiful shades. Packet, 10c. ¼ Oz., 50c.

157. **G. & T. CO.'S EXTRA MIXED.**

This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs for the past two years. Pkt., 15c. Two Pkts., 25c. ¼ Oz., 50c.

158. **PANSY (Bugnot's Exhibition).**—A celebrated strain of extra large size, beautiful colors, handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder. Packet, 25c.

162. **PASSION FLOWER (Southern Beauty).**—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. Packet, 10c.



PANSIES.

THE BEST FLOWER SEEDS

PETUNIAS (ANNUALS)



165. PETUNIA.—Favorite, half-hardy, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden. **Packet, 5c.**

166. SINGLE-FRINGED MIXED PETUNIA.—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25 cents.**

167. DOUBLE PETUNIA.—About 30 per cent. will produce double flowers. **Packet, 25 cents.**

168. PETUNIA—Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25 cents.**
Plants of Double Petunia furnished on application. **10c. each. \$1.00 doz.**

Ten 5c. Papers, mailed, for 25c., or
Four 10c. Papers for 25c.



Carnation

PHLOX DRUMMONDII

175. PHLOX DRUMMONDII (A).—A most brilliant and beautiful hardy annual, about one foot high, well-adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil. **Packet, 5 cents.**

176. PHLOX DRUMMONDII (Nana Compacta) (A).—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. **Packet, 10 cents.**

180. PINK CARNATION, or PICOTEE. (Choicest Double Mixed *Dianthus Caryophyllus*).—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Packet, 10 cents.**

181. PINK CARNATION (Riviera Market, or Gillaud).—This is the only variety that will produce flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in open ground or pots. **Packet, 25 cents.**

182. PINK CARNATION (Marguerite) (P).—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost, or indoors in winter in pots. **Packet, 10 cents.**

201. POPPY—PEONY FLOWERED (A).—A magnificent species, large, showy, double globose flowers, resembling Peonies in shape. **Packet, 5 cents.**

202. SHIRLEY POPPY (A).—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5 cents.**

203. TULIP POPPY (A).—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5 cents.**

204. ICELAND POPPIES, MIXED (A).—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5 cents.**

205. POPPY—IRRESISTIBLE (A).—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Packet, 5 cents.**

210. ENGLISH PRIMROSE (*Primula Vulgaris*) (P).—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be. **Packet, 10 cents.**

211. CHINESE PRIMROSE (*Primula Fringed*) (A).—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25 cents.**

212. RICINUS, CAMBOGIENSIS (A).—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals. **Packet, 5 cents.**

212½. RICINUS ZANZIBARIENSIS, MIXED (A).—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 5 cents.**

213. SCABIOSA—GRANDIFLORA (P).—A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter. **Packet, 10 cents.**

215. SCARLET SAGE (*Salvia Splendens*) (A).—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet. **Packet, 5c. ¼ Oz., 45c.**

216. SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).—Dwarf, green foliage, flowers close to the ground. The finest *Salvia* ever introduced. **Packet, 5c. ¼ Oz., 65c.**

185. PINK—CHINA (*Dianthus Chinensis*) (P).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant. **Packet, 5c.**

188. PINK—HEDDEWIGH (P).—Beautiful double flowers in a great variety of colors, with fringed white edges. **Packet, 5 cents.**

189. PINK—JAPAN (P).—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white. **Packet, 10 cents.**

195. PORTULACA (Mexican Rose) (A).—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work. **Packet, 5 cents.**

196. DOUBLE PORTULACA (A). **Packet, 10 cents.**

200. POPPY-CARNATION (*Papaver*) (A).—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Pkt., 5c.**



Salvia Splendens.

HIGH-GRADE FLOWER SEEDS

**Ten 5c. Papers mailed for 25 cts., or
Four 10c. Papers for 25c.**

220. SENSITIVE PLANT (Mimosa).—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5 cents.

SNAP DRAGON.—(See Antirrhinum.) Packet, 5c.

230. TEN WEEKS STOCKS (Gilliflower).—A world-wide favorite, brilliant and varied in color, equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil. Packet, 5c.

231. STOCKS—SNOWFLAKE IMPROVED.—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Packet, 10 cents.

237. SWEET ROCKET (Hesperis) (A).—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5 cents.

240. SWEET WILLIAM (Dianthus Barbatus) (P).—A well-known free-flowering, popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

243. SWEET VIOLET (A).—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

244. TORENIA (A).—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. Packet, 5c.

245. MAMMOTH VERBENA (A).—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. Packet, 5c. One-half ounce, 25c.

250. VINCA ROSA (A).—Rose with dark eye. Packet, 5c.

251. VINCA ALBA (A).—White, with crimson eye. Packet, 5 cents.

255. WALLFLOWER, DOUBLE (A).—Well-known, deliciously fragrant plants, with large spikes of double flowers, similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. Packet, 10c.

ZINNIA

Very showy plants with large, double imbricated flowers, which, when fully expanded, might easily be mistaken for dwarf dahlias. There is much satisfaction in a bed of Zinnias, for when nearly every other flower has been killed by frost, this plant is still in full bloom more abundantly throughout the season. Sow the seed early in spring, in open ground, and transplant to one and one-half feet apart in good, rich soil. Half-hardy annual; about eighteen inches high.

258. ZINNIA ELEGANS (Youth and old Age) (A).—This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 5 cents.

259. ZINNIAS CURLED AND CRESTED (A).—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5 cents.

260. ZINNIA—DOUBLE POMPON (A).—Long, cone-shaped flowers, very fine. Packet, 5 cents.

261. ZINNIA—ZEBRA FLOWERED (A).—Double striped, profuse bearer of fine double flowers in many colors. Packet, 5 cents.



General List of Climbers

270. BALSAM APPLE (Momordica) (A).—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c. Ounce, \$1.00.

272. BALLOON VINE (Love in a Puff) (A).—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

275. CANARY BIRD FLOWER (Peregrinum) (A).—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy. Packet, 5c.

276. COBEA SCANDENS (P).—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c. Ounce, 40c.

278. CYPRESS VINE, RED (Ipomea Quamoclit) (A).—One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 5c.

279. CYPRESS VINE, WHITE (A).—Usually grown with the red, making a handsome effect. Packet, 5c.

282. MAUREANDIA (Barclayana) (A).—These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. Packet, 5c.

285. MIXED GOURD (Cucurbita) (A).—Rapid growing interesting plants, with ornamental foliage and varieties of singular-shaped fruit; annual. Packet, 5c.

286. NEST EGG GOURD (A).—White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

287. DISH CLOTH GOURD (A).—Packet, 5c.

288. DIPPER GOURD (A).—Packet, 5c.

290. MOCK ORANGE (P).—Fruit shaped like an orange. Packet, 5c.

295. HEAVENLY BLUE IPOMEA (A).—The flowers are in large, airy clusters, and of that lovely blue so rarely seen. Flowers four to five inches across. Packet, 5c.

300. MORNING GLOBY (Convolvulus Major).—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 5c.

302. GIANT JAPANESE MORNING GLOBY (See Cut).—This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish-green.

Packet, 10 cents.

305. MOON FLOWER (Ipomoea Noctiflora).—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them.

Packet, 5 cents.

310. TALL NASTURTIUM (Tropaeolum Major).—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling.

Packet, 5c. Ounce, 10c.

320. SCARLET RUNNERS.—Very handsome climbing Beans, with bright scarlet flowers.

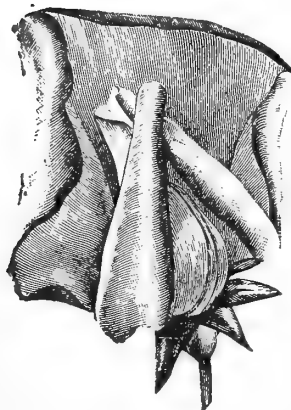
Packet, 5 cents.

326. SMILAX.—Charming climber for greenhouses or window gardens.

Packet, 5 cents.

SWEET PEAS

CULTURE



Sweet Peas should be sown in drills as early as possible in spring in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

For 25c. we will mail 10 assorted packets of the following varieties.

Ounce, 5c. $\frac{1}{4}$ lb., 15c. 1 lb., 40c.

Postage on more than $\frac{1}{4}$ lb. packages, 8c. per lb.

350. **ALICE ECKFORD, OR AGNES JOHNSON.**—Pink and buff, shaded and blended in the standard. Wings pinkish buff.

351. **AMERICA.**—Crimson scarlet, striped on white; very bright and effective.

352. **APPLE BLOSSOM.**—Bright rose and pink.

353. **AURORA.**—Standard, and wings flaked and striped on a white ground with bright orange salmon.

355. **BLANCHE BURPEE.**—Pure white; very large flower.

356. **BLANCHE FERRY.**—Standard brightest pink; keel and wings white.

358. **BLUSHING BEAUTY.**—Flowers of largest expanded form; delicate, soft pink.

359. **BOREATTON.**—Deep maroon.

360. **CAPTAIN OF THE BLUES.**—Purplish blue; wings deep blue.

361. **COQUETTE.**—Standard mauve and fawn blended and shaded on primrose; wings primrose.

362. **COUNTESS OF RADNOR.**—Light mauve standard, lavender wings.

363. **DUKE OF SUTHERLAND.**—Standard dark violet and purple; wings violet and indigo.

364. **ELIZA ECKFORD, OR DAINTY.**—Pure white, edged with light pink on standard and wings.

365. **EMILY ECKFORD.**—Standard heliotrope, suffused with blue; wings deep blue.

366. **EMILY HENDERSON.**—Very early; color pure white.

367. **FIREFLY.**—Bright red, with wings frequently showing tint of crimson.

368. **GORGEOUS.**—Standard scarlet orange; wings bright rose, strongly tinged with orange.

369. **GRAY FRIAR, OR HELEN PIERCE.**—Pure white-veined, mottled and marbled with bright blue.

370. **HER MAJESTY.**—Beautiful, soft, rosy pink.

371. **HON. MRS. E. KENYON.**—Light, primrose, self-colored.

372. **KATHERINE TRACEY.**—Soft, brilliant pink.

373. **KING EDWARD VII.**—Bright red or crimson scarlet.

374. **LADY BEACONSFIELD, OR MARCHIONESS OF CHALMONDELEY.**—Standard light salmon, buff and cream. Wings light buff.

375. **LADY PENZANCE, OR BOLTON'S PINK.**—Orange and salmon pink, veined with rose.

376. **LOTTIE ECKFORD.**—Lavender, shaded with pink and white.

377. **LOTTIE HUTCHINS.**—Daintily flaked with pink on cream ground, making a rich and lovely effect.

378. **LOVELY.**—The most beautiful soft shell-pink.

379. **MAD OF HONOR.**—Standard white, shaded at top with lilac; wings white, very lightly shaded with lavender; rim of both standard and wings deep lilac.

380. **MARS.**—Bright, fiery crimson, deepening with age.

381. **MRS. ECKFORD.**—Peculiar delicate shaded primrose yellow.

382. **MRS. GLADSTONE, OR GLADYS UNWIN.**—Clear, bright, light pink, almost self-colored, but a little deeper at edges.

383. **MRS. JOSEPH CHAMBERLAIN.**—Rose, striped on white on both standard and wings.

384. **MRS. SANKEY, OR SADIE BURPEE.**—Fully matured blossoms pure white. Bud and newly opened blossom show tint of buff and pink.

385. **PRIMA DONNA.**—Lovely soft rose pink.

386. **PRINCE EDWARD OF YORK.**—Standard scarlet with tint of crimson; wings crimson.

387. **PRINCESS BEATRICE, OR QUEEN OF SPAIN.**—Soft buff pink, tendrils tinged brown.

388. **PRINCESS OF WALES.**—Color white ground, shaded and tinged with mauve.

389. **QUEEN OF THE ISLES.**—Standard crimson scarlet; wings crimson, both striped on white.

391. **ROYAL ROBE, OR JANET SCOTT.**—Clear deep but bright pink, showing buff at top of standard, with upper blossoms and bud lighter pink or more buff.

392. **SHAHZADA.**—Rich dark maroon, with a tint of purple in the center of the standard and the inner portion of the wings.

393. **STANLEY, OR BLACK KNIGHT.**—A deep maroon.

394. **THE SENATOR.**—Shaded chocolate and bright brown, and striped on a creamy white ground, mottled and blotched.

395. **VENUS.**—Salmon buff; the standards delicately shaded with rosy pink.

396. **G. & T. CO'S EXTRA FINE MIXED.**—This is a splendid mixture of our own, which includes nearly all the above varieties.

397. **ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.**—Contains some of each of entire list of Eckford's varieties.

SPENCER BEST NEW MIXED SWEET PEAS

A SPECIAL MIXTURE OF THE SPENCER TYPES.

10c. per ounce. $\frac{1}{4}$ lb., 30c. 1 lb., \$1.00.

NEW CHRISTMAS, OR WINTER-FLOWERING

15c. per ounce. $\frac{1}{4}$ lb., 40c. 1 lb., \$1.25.

399. **BURPEE'S EARLIEST WHITE.**—Best for greenhouse forcing.

400. **EARLIEST OF ALL.**—Standard rose, wings white, lightly tinged with pink.

401. **FLORENCE DENZER.**—White.

402. **EX. EY. BLANCHE FERRY.**—Bright carmine rose, wings white, tinged with pink.

ADD 8 CENTS PER POUND FOR POSTAGE.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PLANT DEPARTMENT

WE are now prepared to furnish all kinds of Vegetable and Flowering Plants at short notice. All of our plants are grown especially for us, and we are in a position to offer our patrons THE MOST COMPLETE ASSORTMENT TO BE FOUND IN THIS COUNTRY IN ANY ONE ESTABLISHMENT, AND AT PRICES AS LOW AS SAME QUALITY OF GOODS CAN BE OBTAINED ANYWHERE. Want of space forbids naming all varieties. Cash must accompany all orders. We do not ship plants C. O. D.

VEGETABLE PLANTS

BEEF.—Eclipse, Crosby, Egyptian. 40c. per 100; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices on 10,000 lots.

BRUSSELS SPROUTS.—50c. per 100; \$3.50 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CABBAGE.—All the leading varieties. From December 1 to May 1, frame grown. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. Field grown from May 1 to December 1. 30c. per 100; \$1.25 per 500; \$1.75 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in 10,000 lots.

CAULIFLOWER.—Early Snowball. 75c. per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CELERY.—All the leading varieties. 40c. per 100; \$1.25 per 1000. By express, not prepaid. Add 10c. if by mail. Special prices in 10,000 lots.

EGG PLANT.—Imp. Baltimore from seed bed. 50c. per 100; \$4.00 per 1000. Pot. grown. 50c. per dozen; \$4.00 per 100. By express, not prepaid. Add 10c. per 100 if by mail.

KOHLRABI.—Early White Vienna. 50c. per 100; \$3.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

LETTUCE.—Ready at all seasons. All the leading varieties. 30c. per 100; \$1.25 per 500; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in large quantities.

PARSLEY.—For fall planting. Large, strong roots. \$1.00 per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

PEPPER.—All leading varieties at 20c. per doz.; 50c. per 100; \$4.00 per 1000. Chinese Giant at \$1.00 per 100. By express, not prepaid. Add 10c. per 100 if by mail.

SWEET POTATO.—50c. per 100; \$1.50 per 500; \$2.75 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

TOMATO.—Ready April 1. Seed bed plants of Bonnie Best, Earliana, Chalk's Jewel, Dwarf Champion, Ponderosa and Main Crop Varieties at 50c. per 100; \$2.25 per 500; \$4.00 per 1000. Main crop varieties, Field Grown, ready May 1. 40c. per 100; \$1.50 per 500; \$2.25 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special price in quantity.

ALL OF ABOVE SEED BED PLANTS.

GREENHOUSE POTTED PLANTS

PRICES ON 100 AND 1000 BY EXPRESS NOT PREPAID.

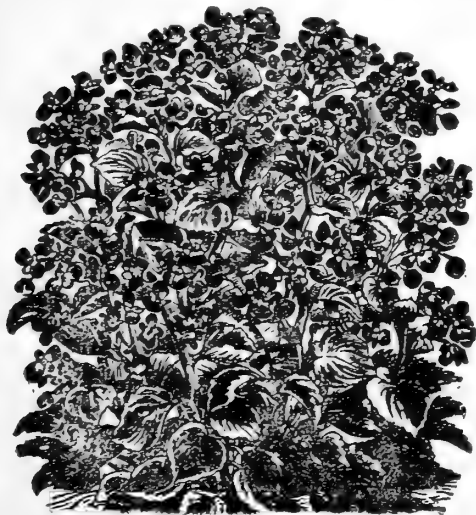
Our collection of Greenhouse Potted Plants has been very carefully revised, and the varieties have been selected with great care, cutting out those of lesser value. Our Cannas, Chrysanthemums, Dahlias, Geraniums, Roses, etc., may appear small, but we wish to present to our friends a condensed list of nothing but the best, and avoiding a long list, which only tends to confuse the buyer. Other varieties, however, possess merit, and will state that we can furnish most anything in this line.

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.

Orders for plants will be forwarded at the proper time for planting, according to variety.

BEGONIAS

These are now among the most popular plants for beds of summer flowers. Nothing can exceed the brilliancy and richness of their flowers. From the time the first blossom appears until all growth is stopped by frost they are never out of bloom.



SPECIMEN PLANT FLOWERING BEGONIA.

GRACILIS, ALBA.—White (Dwarf.)

GRACILIS, ROSEA.—Pink (Dwarf.)

VERNON, ALBA.—White (Tall.)

VERNON, ROSEA.—Pink (Tall.)

10c. each; \$1.00 per doz.

AMOENA ROSEA.—Rose and carmine.

AUREA NANA.—Yellow, compact.

BRILLIANTISSIMUS.—Rich carmine.

SEYBOLDI.—Broad leaf, yellow.

IRIS

KAENPFER

(JAPANESE IRIS.)

These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites.

They commence flowering early in July and continue in bloom for five or six weeks if plentifully supplied with water while growing and flowering.

Each, 15c.; by mail, 20c. Four for 50c.; \$1.25 per dozen; by express, not prepaid.

SPANISH IRIS.

Excellent for pot culture and are now being grown for cut flowers. Plant in the open ground in autumn and protect slightly during the winter months. Early in April cover the beds with glass, and the flowers will be ready for cutting in May. Per clump, 10c.; per dozen clumps, \$1.00. By mail, add 5c. each.

ALTERNANTHERA

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed.

VERSICOLOR.—Crimson, chocolate and green.

PROSPECT PARK BEDDER.—Dark chocolate red.

CARROLL PARK BEDDER.—Dwarf red.

10c. each; \$1.00 per dozen.

By express, not prepaid.



CANNAS

Few flowering plants combine so many fine qualities as the modern Canna—a race of sub-tropical bulbous plants, of most easy culture, rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce.



KING HUMBERT CANNA.

NEWEST VARIETIES

ROSEA GIGANTEA.—Deep red rose; green foliage; extra large, with single petals measuring $2\frac{1}{2}$ inches across; height about 4 feet.

WM. SAUNDERS.—One of the finest Cannas grown, having blooms of rich shining scarlet in great clusters. A strong grower, with rich bronze foliage. Height, 4 feet.

Potted plants only. Price, 50c.

FOLIAGE CANNAS

Roots of large growing Foliage Cannas, bronze and free. The above make beautiful foliage, but do not bloom. Dormant roots at 5c. each. 50c. per dozen.

MIXED CANNA ROOTS IN SPLENDID VARIETY, OUR SELECTION, 5c. each; per dozen, 35c.; per 100, \$2.75. By express, not prepaid.

If by mail, add 3c. each extra for postage.

SELECT VARIETIES

GLADIATOR.—Bright yellow, spotted with crimson; green foliage; a good bloomer; height, 5 feet.

HIAWATHA.—Large rosy pink flowers, bordered with clear cerise and having crimped petals; variegated foliage; height, 3 feet.

KING HUMBERT.—The broadest-leaved Canna. Bronze in color with orange-scarlet blooms. Giant flowering, taking the lead in size, color and habit. Height, 4 to 5 feet.

PORTIA.—Bright cardinal-red; free flowering; dwarf grower.

VENUS.—Gay rosy pink, with mottled border of creamy yellow; green foliage and a splendid bloomer. Height, 4 feet.

POTTED PLANTS ONLY.

Price, 20c. each. 3 for 55c. \$2.00 per dozen.

STANDARD VARIETIES

ALPHONSE BOUVIER.—Crimson; about 6 feet high.

BUTTERCUP.—Deep buttercup yellow, almost pure, the finest yellow; foliage deep green; about 3 feet high.

EGANDALE.—Bronze foliage, currant-red flowers; about 4 feet high.

FLORENCE VAUGHAN.—Green foliage, rich golden yellow, dotted red; about 4 feet high.

JEAN TISSOT.—An intense brilliant vermilion, with bright orange shading. It is one of the brightest of the large-flowered Cannas, massive green foliage of uniform growth; about 5 feet high.

J. D. EISELE.—Bright vermilion scarlet; about 4 feet high.

LOUISIANA.—A strong, vigorous growing variety, producing a dense mass of glossy green foliage, large vivid scarlet flowers often measuring seven inches across; about 7 feet high.

MME. CROZY.—Bright scarlet, golden border; about 4 feet high.

PENNSYLVANIA.—Produces very large flowers of a bright vermilion scarlet, overlaid with an orange sheen, remarkably free flowering; about 6 feet high.

PRESIDENT MEYERS.—Rich cherry, carmine, immense trusses of large flowers, bronzy foliage; about 4 feet high.

QUEEN CHARLOTTE.—Crimson scarlet, canary yellow border; about $3\frac{1}{2}$ feet high.

RICHARD WALLIS.—The ideal free-flowering yellow Canna, of a pleasing canary yellow color, having exceptionally large flowers; height, $4\frac{1}{2}$ feet.

Started plants, from 3-inch Pots....10c. each...\$1.00 per doz.

Dry Roots.....5c. each... .50 per doz.

By express, not prepaid.

Small quantities of the above plants may be mailed for an additional 3c. each for postage.

COLEUS

NAMED VARIETIES.

BECKWITH GEM.—Scalloped edge, center bright soft crimson maroon, bordered green and gold.

ELDORADO.—Orange yellow, ribbed and blotched very dark maroon.

FIREBRAND.—Bright maroon, flamed and shaded vivid glowing scarlet.

GOLDEN BEDDER.—Standard yellow bedder.

HERO.—Almost jet black, leaves pointed and scalloped.

LORD PALMERSTON.—Dark maroon center, with dark crimson ribs.

QUEEN VICTORIA.—Bright cardinal red, with distinct bright golden border.

VERSCHAFFELTII.—Standard crimson variety.

10c. each. 75c. per doz. \$4.00 per 100, by express, not prepaid.

Hardy Pompon Chrysanthemums

Aster Varieties

ASHBURY.—Sulphur white.
AUNT JANE.—Yellow shaded bronze.
BEETHA.—Large white; open center.
BOHEMIA.—Fine pure yellow.
BOSTON.—Golden bronze.
FINDON.—Violet rose.
FRED J.—Red orange.
GLADYS.—Flushed pearl.
GERTRUDE.—Pure white; open center.
HESTER.—Pearl white, shaded flesh.
HIJOS.—Beautiful primrose pink.
JERRY.—Rose lilac.
JULIA LARGRAVERE.—Crimson maroon.
KING HENRY.—Straw white.
LADY NAYLOR.—White.
LOUISA.—Large white, long stem.
MRS. PORTER.—Bright bronze.
MRS. SNYDER.—Splendid early yellow.
PENELOPE.—Large white; tall.
PETO.—Rich bronze.
PARAGON.—Early white; open center.



Aster Varieties

Continued

PRINCE OF WALES.—Best pure white.
QUEEN OF BUL.—Violet rose.
SALEM.—Silver rose, long quilled.
SIR MICHAEL.—Lemon yellow, open center.
THE HUB.—Fine white, open center.
WILLIE.—Lilac and white.

Single Varieties

AARON.—Bronze scarlet.
NORTHUMBERLAND.—Bright scarlet, yellow disc.
PRINCESS OF THULE.—Red orange.
ROSY MORN.—Silver pink.

Anemone Varieties

EARL.—Pearl white, silver rose, center dwarf.
LADY OLIVIA.—Beautiful white.
GRACIE.—White, full center.
MATILDA.—White.
OBAN.—Silver pink; full anemone center.

Small Flowering or Button Varieties

ALICE CARY.—Pure yellow.
CERISE QUEEN.—Cerise pink.
DAWN.—Daybreak pink.
ERMINE.—Bright orange scarlet.
GOLDEN PHEASANT.—Deep orange yellow.
HENRIETTA.—Bronze, yellow edge.
JAMES BOON.—Pure white.
JEANETTA.—Silver bronze and rose.

Price, 10c. each; per dozen, 75c.; per 100, \$5.00, by express, not prepaid.

LITTLE PET.—Rich violet red.
RHODA.—Pink shaded white.
SUNSHINE.—Pure golden bronze.
TENNYSON.—Pure yellow.

FUCHSIAS

ANNA NEVILLE.—Single carmine petals; purple corolla.
BLACK PRINCE.—Single waxy carmine petals, open pale pink corolla.
ELM CITY.—Rich crimson, corolla deep purple and double.
GERBERT.—Curved petals, fiery red, large double corolla, reddish purple, blotched cardinal red.
LIEUT. MAURITZ.—Double white corolla, scarlet tube and sepals.
MARINKA.—Red flowered.
MINISTER BOUCHER.—Double, large carmine petals, lilac rose corolla.
MINNESOTA.—Tube and petals light pink, corolla violet purple.
MRS. GLADSTONE.—Double white corolla, coral red petals.
 10c. each; \$1.00 per dozen, by express, not prepaid.

LATANAS

An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular.

A. CLAVEN.—Primrose pink and sulphur.
A. COOK.—Orange and rose; dwarf, compact habit.
AUREORA.—Tall, orange and coppery red.
DELICATISSIMA, or WEEPING.—Lilac lavender.
JAVOI.—Tall; clear, pure white; yellow center.
LEO DEX.—Open orange scarlet; changes to dark crimson.
 Price, 10c. each; \$1.00 per dozen, by express.

HELIOTROPE

ALBERT DELEAUX.—Golden foliage, mottled green; flowers deep lavender.
CHIEFTAIN.—Lilac; large trusses, sweet-scented.
MME. DE BLONAY.—Large trusses, nearly pure white.
MME. BRUANT.—Very dark purple.
 10c. each; \$1.00 per dozen, by express, not prepaid.

IVY

HARDY ENGLISH IVY.—For cemeteries and walls.
PARLOR OR GERMAN IVY.—A tender climber and the best vine for window gardens at all seasons.
 Price, 10c. each; \$1.00 per dozen, by express, not prepaid.

LOBELIA

CRYSTAL PALACE GEM.—Dwarf blue.
KATHLEEN MALLARD.—The new double blue Lobelia.
 Price, 10c. each; \$1.00 per dozen, by express, not prepaid.

VERBENA

VERBENA.—Large flowering, in scarlet, pink, white and purple varieties.
LEMON VERBENA.—Used for fragrant foliage.
 Price, 10c. each; \$1.00 per dozen, by express, not prepaid.



Double Giant Flowering

CHAS. LANIER.—Yellow amber, shaded buff.

CUBAN GIANT.—Full round form, dark glowing crimson, shaded maroon. Largest of all show dahlias.

GETTYSBURG.—A bright, rich, pure scarlet; full round form.

MME. VAN DEN DEYL.—Immense size and beautiful form. Color soft shell-pink and deeper markings. Profuse bloomer.

MRS. ROOSEVELT.—Beautiful bluish white, shading to soft clear pink; of immense size and substance.

SOUV. DE GUSTAVE DOUZON.—When perfect the bloom measures 7 inches across, with some of its petals 3 inches long by 1½ inches wide, and it should be called the king of all. The color is an attractive shade of orange-red flowers of fine and symmetrical form.

Price, 25c. each; 5 for \$1.00; per dozen, \$2.00.

Collarette Varieties

PRESIDENT VIGOR.—Deep blood red, shading darker toward base of petals, with white collar.

ETENARD DE LYON.—Bright velvety scarlet, collarette is yellow at the base, white at the tips.

GALLIA.—Bright rose, suffused and tipped scarlet, passing to sulphur yellow.

PRINCE GALLITZEN.—Rich crimson with red-tipped collarette; fern-like foliage.

Price, 15c. each; \$1.50 per dozen.

PRICES BY THE DOZEN AND HUNDRED ARE BY EXPRESS, NOT PREPAID.

Dahlias

THE FOLLOWING NAMED VARIETIES SUPPLIED IN
POTTED PLANTS ONLY. (Ready April 15th.)

1911 Introductions

JACK ROSE.—Rich velvety-crimson; early and long-stemmed.

MRS. C. W. BASSETT.—Rich, deep rosy pink.

MRS. CHAS. SEYBOLD.—Peony-flowered rose, edged and striped white.

PRINCESS VICTORIA.—Pure canary yellow.

VIRGINIA MAULE.—Delicate tint of shell-pink.

WM. PIERCE.—Shell-pink.

Price, 25c. each; \$2.50 per dozen.

Fancy Varieties

ELOISE.—Distinct variety, full and regular; ground color of bluish pink, shading to white, having each petal margined with deep glowing crimson.

FRANK SMITH.—Dark rich maroon, tipped white.

KEYSTONE.—Pink, spotted and striped with crimson; of large size.

LUCY FAWCETT.—Canary yellow striped and blotched.

MAID OF KENT.—Variegated crimson and white.

MME. LUMIER.—Pale white, violet, red points.

PROGRESS.—Bright rosy lake, penciled and spotted crimson.

PROF. MANSFIELD.—Rich yellow, clear white, tips rosy red.

STRIPED BANNER.—Cardinal red, striped white.

Price, 10c. each; \$1.00 per dozen.

DAHLIAS

THE FOLLOWING NAMED VARIETIES SUPPLIED
IN POTTED PLANTS ONLY. (Ready April 15.)

New Peony---Flowered Dahlias

QUEEN WILHELMINA.—Immense fluffy flower of pure white, with yellow center.

GERMANIA.—Brilliant strawberry-red, a very fluffy artistic flower, standing well above the foliage, producing a very gay effect.

GLORY OF BAARN.—Very large loosely arranged flower, of soft hortensia-rose color.

QUEEN EMMA.—A magnificent sort that appears almost artificial; it is of a charming shade of mallow or Hollyhock pink, the inner petals banded with gold.

Price, 25c. each; set of 4 for 75c.

New Century Single Dahlias

BIG CHIEF.—Double Century, brilliant cherry-red, margined rich velvety maroon.

CRIMSON CENTURY.—Rich deep velvety crimson, shaded maroon, with rose halo around a yellow disc.

FRINGED TWENTIETH CENTURY.—Rosy crimson, with white tips; the petals are deeply cleft, giving it a fringed appearance.

ROSE PINK CENTURY.—Clear rose pink; immense size.

SCARLET CENTURY.—Brilliant dazzling scarlet without shade or blemish, except occasionally a stripe of white or white petal.

SENSATION.—A new double Century; vivid vermilion, heavily tipped white.

WHITE CENTURY.—Pure white with yellow disc; large overlapping petals of good texture.

Price, 30c. each; 6 for \$1.50; per dozen, \$3.00.

6 New Cactus Dahlias

CRIMSON BEAUTY.—A beautiful deep, shining crimson; the nicest color of its kind.

FLORA.—Large, pure white.

INTERNATIONAL.—Bright orange-scarlet.

KOENIGEN WILHELMINA.—Rich crimson, shaded maroon.

MASTER CARL.—Clear orange salmon; of good substance.

PEARLHILDE.—Light pearl pink, shading to white.

Price, 25c. each; \$2.50 per dozen.

Standard Cactus Dahlias

COUNTRESS OF LONSDALE.—Lustrous salmon pink, blending with amber.

J. H. JACKSON.—Brilliant, very dark crimson maroon.

LIBERTY.—Very dark velvety red, shaded darker, showing a light reflex; very beautiful and attractive.

KRIEMHILDE.—Beautiful clear pink, shading lighter toward the center.

MRS. H. J. JONES.—Margin of petal deep crimson, with broad stripe of white running through the center, blending harmoniously.

VOLKEE.—Charming free flowering; pure yellow.

WINSOME.—Fine creamy white, of good size and form. Best for cut flowers.

BRUNHILDE.—Color, deep rich velvety plum.

BRITTANIA.—Deep salmon fleshed. Early.

GENERAL BULLER.—Cardinal red, with crimson shadings; petals tipped with white.

MRS. WINTERS.—Finely formed, large snow-white variety.

STROHLEIN KRONE.—Tints cardinal red. Very beautiful.

Price, 10c. each; \$1.00 per dozen.

Pompon Varieties

ALLIE MOUREY.—Very fine deep pink.

LITTLE MAY.—Bright golden yellow; free flowering.

ROSALIE.—Lemon, edged crimson.

RAFAEL.—Deep maroon of fine form.

SNOW CLAD.—Pure white dwarf.

SUNSHINE.—Vivid scarlet.

Price, 10c. each; \$1.00 per dozen; \$4.00 per 100.

PRICES BY THE DOZEN AND HUNDRED ARE BY EXPRESS, NOT PREPAID.



12 Best Show Varieties

ARABELLA.—Pale primrose, shaded old rose and lavender.

A. D. LIVONNII.—Seashell pink of perfect form.

CAMELIA FLORA.—Snow white; best for cut flowers.

CLIENT.—Deep velvety crimson.

DAVID JOHNSON.—Salmon and rose.

ELECTRIC.—Pinkish lilac.

EMILY.—Varying from rosy lavender to white.

M. D. HALLOCK.—Clear yellow.

ORLANDO.—Buff salmon shaded over amber.

RUBY QUEEN.—Rich dark maroon.

TRIUMPH DE SOLFERINO.—Dwarf, bright solferino; very large. Good bedaeer.

ZEBRA.—White, edged with bright lilac.

Price, 10c. each; \$1.00 per dozen.

12 Best Decorative Varieties

BARON SCHROEDER.—Rich glowing purple, light shading.

BLACK BEAUTY.—A grand deep maroon of distinct form.

CLIFFORD W. BRUTON.—Canary yellow of immense size; very vigorous grower; free bloomer.

EUREKA.—Deep rose, fine regular form, quilled petals, of dwarf branching habit.

FIRE RAIN.—Rich cardinal red.

GRAND DUKE ALEXIS.—Magnificent flower of large size. Pure white, delicately tinged with pale lavender; quilled petals; finest form and finish.

HENRY PATRICK.—Superb large pure white, petals broad and pointed, long stems.

JEAN CHARMANT.—Pink, lilac at the edge, white toward the center.

MRS. HARTONG.—Golden bronze.

PRINCESS VICTORIA LOUISE.—Deep rose pink.

WM. AGNEW.—Immense size, intense dazzling scarlet crimson, perfect form. Very profuse bloomer; a great favorite.

YELLOW LE COLOSSE.—Large double flowers of the brightest yellow.

Price, 10c. each; \$1.00 per dozen; \$6.00 per 100.

DAHLIA ROOTS

In separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per dozen; by express, not prepaid.

GERANIUMS

Ivy Geraniums

ACHIEVEMENT.—Semi-double, large flowering; coloring, a distinct shade of salmon pink.

ALLIANCE.—Semi-double, color a most exquisite shade of delicate lilac white; upper petals feathered and blotched bright crimson rose.

BALLADE.—Color of a tender lilac, upper petals feathered with crimson. A fine pot variety.

CAESAR FRANCK.—Very popular; color, soft rich crimson, with an exquisite shading of tender rose at base of petals. Clean waxy rich green foliage.

MME. THIBAUT.—Beautiful rose pink; flowers large and round, magnificent trusses.

MRS. BANKS.—White, slightly tinted pink; large flowers, black blotches on upper petals.

Price, 10c. each. \$1.00 per dozen.

New Single Geraniums

BARIOLAGE.—Dwarf; clear rose, lower petals spotted crimson, upper petals blotched white.

CLAIRE ALBANE.—Pure white, large flower, splendid grower.

MAXIME KOVALEVSKI.—Fine vigorous grower, large round flowers of brilliant orange.

Mlle. ANATASIE LECADRE.—Large trusses of well-formed flowers, carmine rose, center maculated white.

PAMELA.—Large white center, followed with a shading of rosy lake, bold outer margin of violet crimson; free flowering.

TEODOR DE WYZEWA.—Clear rich pink, large white center; splendid truss and abundantly produced.

Price, 20c. each. \$2.00 per dozen.

New Double Varieties

EDMOND BLANC.—Semi-double, deep carmine, violet tinge, white eye.

JAMAIQUE.—Grand, large trusses of enormous semi-double flowers of rich cherry red.

MAUNA LOA.—Large semi-double flowers, bright fiery red.

SUZANNE DESPRES.—Large semi-double flowers, white, bordered tender rose.

AURORA.—Large and bold trusses, having a bright and pleasing shade of aurora copper, shaded lighter.

HENRIETTE CORDELET.—Half dwarf and of very compact habit; large semi-double flowers; color, bright rose spotted with white.

Price, 20c. each. \$2.00 per dozen.

Six Best Standard Single Varieties

EUGENE SUE.—Brilliant orange scarlet; base of petals touched snow white.

GRANVILLE.—A beautiful shade of dark rose pink, white blotches on base of upper petals. Strong and compact habit.

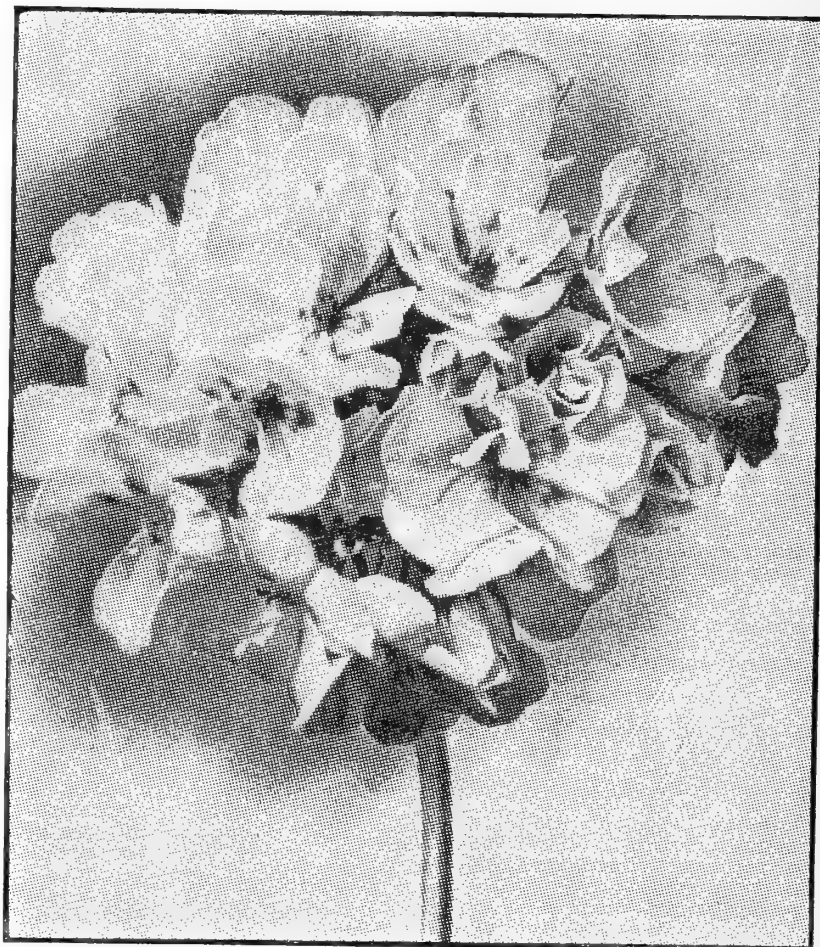
MARGUERITE DE LAYRE.—Pure white; free flowering, with enormous trusses. Blooms incessantly.

MRS. E. G. HILL.—The center of each petal is a soft light salmon, bordered with rosy salmon. Semi-dwarf and of exceptionally fine habit.

PAUL CRAMPPEL.—Dwarf and vigorous; brilliant scarlet, gigantic trusses.

PRINCESS ALEX.—Carmine lake; producing perfect flowers, and having light green foliage.

Price, 10c. each. \$1.00 per dozen.



Best Standard Double

ALPHONSE RICARD.—Semi-double and dwarf. Color, bright vermilion scarlet.

ANAIS SEGALAS.—Strong, robust grower, with dark, rich foliage and color of a bright salmon carmine, brightening toward the center.

BERTHA DE PRESILLY.—Semi-double; silver rose.

BEAUTE POITEVINE.—Semi-double; clear salmon pink, shading to a bright salmon in the center.

COL. THOMAS.—Deep cardinal red, apparently covered with purplish sheen, deepening toward the center; semi-double flowers. Easy to grow.

GENERAL GRANT.—Bright vermilion scarlet.

JEAN OBERLE.—Grand flowers and excellent trusses; white, center aurora rose, shaded tender salmon.

JULES VASSUER.—Large semi-double flowers, vermilion scarlet, distinct white eye, slight violet shading on upper petals.

MME. LANDRY.—A distinct salmon pink, with slight shading of scarlet. Semi-dwarf, splendid for pot plant or bedding.

MRS. LAWRENCE.—Bright satiny salmon pink, slightly tinged white, the finest of this color. Dwarf and indispensable as a pot plant.

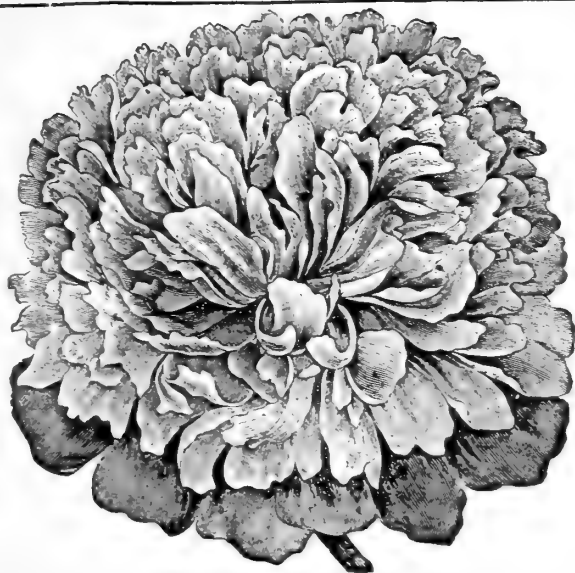
MONSIEUR EMILE DAVID.—Violet rose, upper petals of feathered white at the base. Semi-double.

S. A. NUTT.—Deep scarlet, with maroon shading, double.

Price, 10c. each. \$1.00 per dozen.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

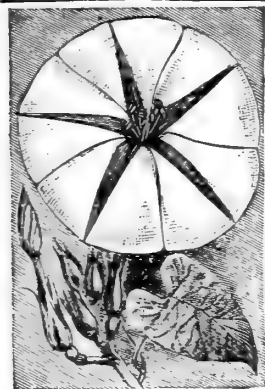
**P
E
O
N
I
E
S**



One of the most popular hardy plants grown for lawn and garden decoration.

DOUBLE CRIMSON.
DOUBLE WHITE.
DOUBLE ROSE.

Price, 25c. each; \$2.50 per dozen. Postage extra, 5c. each, if wanted by mail.



MOON FLOWER.

Moon Flowers

Grow and bloom with everyone. If planted out in rich ground, where they have full exposure to the sun, they will attain a height of 40 feet by October 15, blooming all summer.

IPOMEA GRANDIFLORA.—White Moonflower. Price, 10c. each; \$1.00 per dozen.

IPOMEA.—Blue Dawn Flower. Price, 10c. each; \$1.00 per dozen.

SCARLET SAGE

Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture. Blooms are borne in long spikes well above the foliage and are of fiery red, crimson, continuing in flower a long time. Start early in heat and transplant into light soil one to two feet apart. Tender perennials; but bloom the first season; height two to three feet.

CLARA BEDMAN, OR BONFIRE.—Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. 10c. each; \$1.00 per dozen; \$6.00 per 100.

SALVIA ZURICH.—Dwarf, same color as Bonfire, but larger flowering. Price, 15c. each; \$1.50 per dozen.

SALVIA SPLENDENS.—Tall, erect, green foliage. The well-known Salvia. 10c. each; \$1.00 per dozen; \$6.00 per 100. By express, not prepaid.

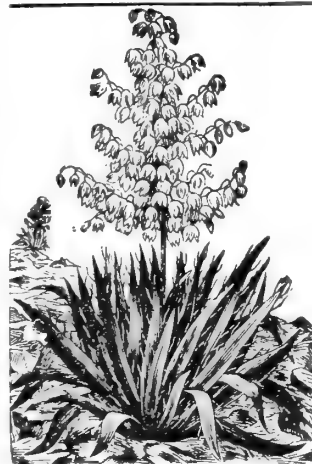


YUCCA

A hardy evergreen plant with long, narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine, stately lawn plant.

FILAMENTOSA GLORIOSA (Adam's Needle).—Price, one-year-old, 10c. each, postpaid.

Extra large plants, 25c. each, by express, not prepaid.



PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position. Superb single-fringed mixed. Superb double-fringed mixed. 10c. each; \$1.00 per dozen, by express, not prepaid.

PHLOX.—Hardy clumps in mixed varieties. 10c. each; \$1.00 per dozen. Postage, 5c. extra, or by express, not prepaid.



HARDY WATER LILIES

The ease with which Water Lilies and Aquatics are cultivated, the certainty of handsome results the same season they are planted, the magnificent flowers of great variety of form and color, their delicate perfume and the great fascination in growing them, is making the water garden widely popular.

These require a water-holding receptacle about 2 or 3 feet deep, a warm, sunny location, some rich, soft soil, and an available supply of water to make up for the loss by evaporation.

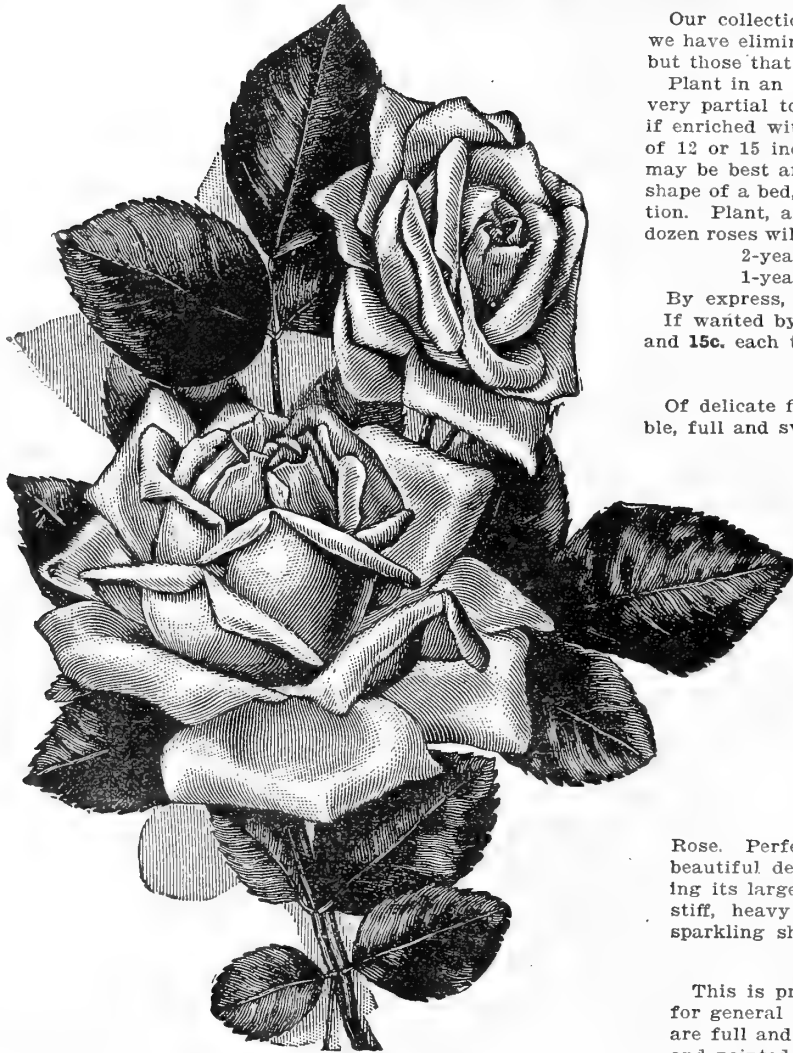
Ready as soon as weather permits transferring.

NYPHEA ODORATA MINOR.—The well-known fragrant pond lily; lovely pure white flowers. 15c. each; 4 for 50c.; \$1.25 per dozen.

NYPHEA ODORATA GIGANTEA.—A superb variety, and should be in every collection. Similar in all respects to Nymphaea Odorata; flower very large and full. 15c. each; 4 for 50c.; \$1.25 per dozen.

Four or more of the above, by express, not prepaid.

CHOICEST ROSES



PINK MAMAN COCHET (Tea.)

Such beauty and exquisite form as is possessed by this variety is well nigh marvelous, and cannot be seen in any other Rose we know. The buds are beautiful; large, full and firm and elegantly pointed; as they expand they show great depth and richness. Flowers superb when open, extra large, perfectly double and of splendid substance. Perfectly hardy in all sections of the country. The color is clear, rich pink, changing to silvery-rose.

WHITE MAMAN COCHET.

Or Friscilla—The Charming New White Tea Rose.

It belongs to the Tea class, being a child of that grandest of bedding or outdoor Roses, Maman Cochet, and is hardy in Northern Ohio with slight protection in winter. Its habit is exceedingly strong and upright, like its parent, and it possesses the same large, beautiful healthy foliage, and is a most profuse and constant bloomer. The flowers are of enormous size, remarkably round and full; pure, clear, snowy-white throughout, and are delightfully tea-scented. It is by far the finest and most reliable white bedding Rose yet produced.

AMERICAN BEAUTY (Hybrid.)

This variety has been rightly described as an ever-blooming hybrid perpetual. The flowers are very large and double; color, a deep rich rose. The fragrance is delightful.

Our collection of Roses is second to none in the country, as we have eliminated all undesirable sorts and are offering nothing but those that make fine flowers and are free bloomers.

Plant in an open, airy situation unshaded by trees. Roses are very partial to clay loam, but will do well in any ordinary soil if enriched with bone. Dig the soil up thoroughly to the depth of 12 or 15 inches, as rose roots penetrate deeply. Bush Roses may be best arranged together in beds or borders. The size and shape of a bed, wherever planted, should be made to fit the situation. Plant, as a rule, about 18 inches apart; for example, one dozen roses will nicely fill a bed eight feet long by three feet wide.

2-year-old roots, **40c.** each; **\$4.50** per dozen.

1-year-old roots, **20c.** each; **\$2.25** per dozen.

By express, not prepaid.

If wanted by mail, add **8c.** each to price of one-year-old roots, and **15c.** each to price of two-year-old roots for postage.

CAPTAIN CHRISTY (Hybrid.)

Of delicate flesh color, rosy center. Flowers extra large, double, full and sweetly scented.

MY MARYLAND (Hybrid.)

A new seedling, particularly good for winter forcing. The color is a soft salmon-pink, lighting up beautifully as the flowers expand. It is of splendid growth, sturdy and healthy, with large foliage, and delightfully perfumed.

RHEA REID.

In this new American variety we have a decided acquisition—a rose of the type of the American Beauty, but of the easiest culture. It never mildews or black-spots, and opens its large flowers perfectly under all weather conditions. In color it varies with the temperature—in summer a bright cherry-rose, while in winter it is a rich crimson-scarlet.

KILLARNEY.

New, hardy, ever-blooming Irish Hybrid Tea Rose. Perfectly hardy; makes a strong, upright bush, with beautiful deep bronze green foliage. Is free-flowering, bearing its large, long-pointed buds and massive flowers on long, stiff, heavy shoots; an exquisite shade of deep, brilliant, sparkling shell-pink. Has a delightful tea fragrance.

HELEN GOULD (Tea.)

This is probably the most beautiful and satisfactory Rose for general planting ever introduced in America. The flowers are full and perfectly double, the buds beautifully made, long and pointed. The color of a ripe, red watermelon.

ULRICH BRUNNER.

Bright cherry-red; flowers large and full; a good, strong grower and always does well.

VICK'S CAPRICE.

This is the only hardy Rose that has any variegation. It is a vigorous grower, and bears large and fragrant flowers of bright rose, distinctly striped with a rich crimson.

ETOILE DE FRANCE.

In this new French variety we have a most valuable addition to our collection of Hardy Hybrid Tea Bedding Roses. It is a strong, vigorous grower, with good dark foliage and flowers which are full and double and as beautiful in the bud as in the full bloom flower, and borne on strong, upright shoots in the greatest profusion. In color it is of a rich, velvety-crimson with vivid cerise-red center.

METEOR (Hybrid Tea.)

A velvety-red ever-blooming Rose, of the deepest glowing crimson. As fine as a Hybrid; flower of medium size, very double, and petals slightly recurving. A beautiful open Rose, a free bloomer, and promising well as a pot Rose. It has no tinge of violet or purple to mar its beauty. It promises to be a reliable ever-blooming Rose, free from bad qualities.

ROSES

CONTINUED

RICHMOND

It is as free blooming as Bridesmaid or Golden Gate, and its scarlet-crimson flowers are borne on fine long stems, which makes it specially valuable for cutting purposes. It is a strong competitor of Liberty and Meteor for forcing.

MAGNA CHARTA

A splendid Rose; extra large, full flowers, very double; of fine form, and sweet; color, clear rosy red, beautifully flushed with violet crimson; a sure and profuse bloomer; one of the hardiest and best for general planting.

PAUL NEYRON

Probably the largest and finest Rose; bright shining pink, clear and beautiful; very double and full; finely scented; blooms the first season and all summer.

LA FRANCE (Hybrid Tea)

No variety can surpass it in delicate coloring—silvery-rose shades, with pink. It has a satin sheen over all its petals.

ETOILE DE LYON (Star of Lyon, Tea)

This magnificent Tea Rose is a rich golden-yellow, a strong, healthy and vigorous grower. The flowers are very deep, rich and full, excellent substance, very sweet.

GRUSS AN TEPLITZ

New, hardy, ever-blooming Hybrid Tea Rose. The flowers are large, full and moderately double; are handsomely made, of splendid substance, and are produced on extraordinary long stems that shoot out beyond the foliage in free yet handsome disorder. The color is fiery crimson, shaded with a dark, velvety sheen. It grows to a height of four to five feet, and is perfectly hardy in all sections.

KAISERIN AUGUSTA VICTORIA (Hybrid Tea)

One of the most desirable white roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower, with large foliage.

BRIDESMAID (Tea)

The flowers are very large and of fine, regular, full form, delightfully tea-scented; color, clear rose pink. A free and constant bloomer; makes elegant buds for cutting.

EVER-BLOOMING CLIMBING ROSES

BABY RAMBLER

New Dwarf Ever-blooming Crimson Rambler.

MADAM NORBERT LEVASSEUR

This is the rose that has created a commotion in the rose world. It is a dwarf bushy grower and a true ever-bloomer, being in bloom all the time; flowers in large clusters; color, brightest crimson, and grows to a height of 18 inches.

NEW RAMBLER ROSE TAUSENDSCHON

A German introduction which comes to us very highly recommended. It has the same vigorous habit of growth as the other Ramblers, and is almost devoid of thorns. It bears its flowers in immense clusters; in color a soft pink when first opening, changing to a carmine rose on the reverse as they fully expand.

DOROTHY PERKINS

As hardy as Crimson Rambler and same habit of growth. Flowers are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell-pink.

EMPRESS OF CHINA (The Apple Blossom Rose)

This is a new hardy climber that possesses great merit. Flowers of good size from pointed buds; soft red, turning lighter as it opens. It blooms from May to December in the open ground.

PHILADELPHIA (Crimson Rambler)

This splendid new variety differs from the old Crimson Rambler in having a brighter, deeper and more intense color and flowers that are perfectly double to the center.

CRIMSON RAMBLER

This plant is of a very vigorous growth for covering buildings, trellises, etc. It cannot be excelled. One of the striking characteristics of this Rose is its remarkable color of the brightest crimson.

2-year-old Roots.....40c. each; \$4.50 per doz.
1-year-old Roots.....20c. each; 2.25 per doz.

By express, not prepaid.

If wanted by mail, add 8c. each to price of 1-year-old roots, and 15c. each to price of 2-year-old roots for postage.



PAPA GONTIER (Tea).—Dark crimson red, with long, pointed buds; beautiful for cutting.



BULBS FOR SPRING PLANTING



GLADIOLUS.

GLADIOLUS

If wanted by mail, add 10c. per doz.
for postage.

THE cultivation of the Gladiolus is very simple, as they will thrive in any good garden soil, but will amply repay one for careful cultivation. A succession of bloom may be had from July to September by planting at intervals from April to June.

OUR GLADIOLUS are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore we claim them to be unexcelled as to quality.

MIXED (all colors).—Dozen, 25c.; \$1.50 per 100.

WHITE AND LIGHT COLORS.—Dozen, 30c.; \$2.25 per 100.

LEMOINE'S (Mixed).—Extra fine. 35c. per dozen; \$2.75 per 100.

CHILD'S MIXED.—Extra large and fine. 40c. per dozen; \$3.00 per 100.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best named sorts, including 10 per cent. of Snow White. 5c. each; 50c. per dozen; \$3.50 per 100.



CALADIUMS

ELEPHANT EAR.

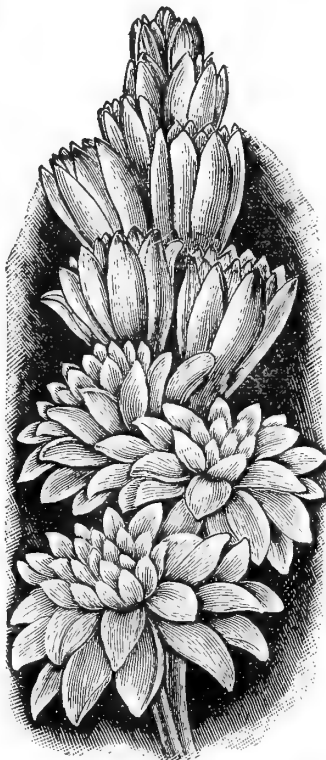
THE Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS (7 and 9 inches).—Each, 5c. By mail, 10c. 50c. per dozen.

LARGE BULBS (9 and 11 inches).—Each, 10c. By mail, 15c. 75c. per dozen.

EXTRA LARGE BULBS (11 inches and upwards).—Each, 15c. By mail, 20c. \$1.25 per dozen.

Prices per dozen are by express, not prepaid.



TUBEROSES

ONE of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first day of May.

Each \$.05
Dozen25
Per 100 1.00

By mail, 35c. per dozen.

Madeira Vine Roots

Each \$.05
Dozen30

NURSERY DEPARTMENT

SUMMER APPLES

YELLOW TRANSPARENT.—Ripens among the earliest. July. **STAR.**—One of the best. July.

30c. each. \$3.25 per dozen. \$25.00 per 100.

AUTUMN APPLES

GRAVENSTEIN.—August.

OLDENBURG (Duchess of Oldenburg).—August.

30c. each. \$3.25 per dozen. \$25.00 per 100.

WINTER APPLES

YORK IMPERIAL, or JOHNSON'S FINE WINTER.

STAYMAN'S WINESAP.—A great apple.

30c. each. \$3.25 per dozen. \$25.00 per 100.

LANKFORD'S SEEDLING.—A popular sort for late winter use.

50c. each. \$4.80 per dozen. \$30.00 per 100.

ADDITIONAL VARIETIES

"S" means Summer. "A" Autumn. "W" Winter.

Red Astrakhan, S. Carolina Red June, S. Tetafsky, S.

Fall Pippin, A. Smoke-house, A. Ben Davis, W. Bentley's

Sweet, W. Berry Red, W. Fallwater, A. Winesap, W.

Nansemond Beauty, W.

25c. each. \$2.50 per dozen. \$20.00 per 100.

CRAB APPLES

30c. each. \$3.00 per dozen.

PEARS

KOONCE.—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer. 50c. each. Three for \$1.25.

VERMONT BEAUTY.—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic. 50c. each. Three for \$1.25.

GARBER AND KIEFER.—September and October. Said to be blight-proof. 40c. each. \$4.00 per dozen. \$25.00 per 100.

BARTLETT.—The old well-known standard variety. 60c. each. \$6.50 per dozen.

FLEMISH BEAUTY, SECKEL.

25c. each. \$2.50 per dozen. \$20.00 per 100.

DWARF PEARS

PRICES ON DWARF PEARS, 2 and 3 Years, First Class:

40c. each. \$3.50 per dozen. \$25.00 per 100.

The following varieties succeed well as dwarfs:

Angouleme, Anjou, Lawrence, Manning's Elizabeth.

PEACHES

CARMEN.—Hardy, rot-proof. Ripens with Early Rivers; almost as large as Elberta. Pale yellow skin; flesh white. Melting, juicy. Ripens ahead of Mountain Rose.

35c. each. \$3.50 per dozen.

ELBERTA.—Needs no description.

ITALIAN DWARF.—Very singular tree. Begins bearing when 12 to 15 inches high, and seldom exceeds 3 or 4 feet. Fine for small yards. White; free-stone.

GOLDEN DWARF.—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.

25c. each. \$2.50 per dozen.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeve's Favorite, Christiana, Smock Free, Globe, Ringgold Cling.

20c. each. \$2.00 per dozen. \$12.50 per 100.

JAPANESE, or ORNAMENTAL PLUMS

HALE.—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September.

WILLARD.—Earliest of all Japan plums, and hence very valuable for market.

WICKSON.—Pit small; flesh tender, sweet and delicious.

50c. each. Three for \$1.25.

One of each of the above or the three-in-one order for \$1.25.

BOTAN OR ABUNDANCE.—First of August.

BURBANK.—September 1.

The two above-named varieties, 40c. each. Three for \$1.00.

\$3.50 per dozen.

SHROPSHIRE DAMSON.—25c. each. \$2.50 per dozen.

CHERRIES

HEART.—Black Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Mercer.

DUKE and MORELLO.—Dye House, Belle Magnifique, Early Richmond, Montmorency.

Price, 75c. each. \$6.00 per dozen.

APRICOTS

HARRIS.—Very hardy; blooms late; sure bearer; fine golden yellow.

RUSSIAN VARIETIES AND NECTARINES.

50c. each. \$5.00 per dozen.

QUINCES

CHAMPION (3 to 4 feet).—50c. each. \$5.00 per dozen.

CHAMPION (2 to 3 feet).—30c. each. \$3.00 per dozen.

MEECH PROLIFIC (3 to 4 feet).—50c. each. \$5.00 per doz.

MEECH PROLIFIC (2 to 3 feet).—30c. each. \$3.00 per doz.

By express, not prepaid.

GRAPES

The following list contains the best-known sorts of hardy American varieties:

OHIO, BLACK.—One of the very best. Two years old.

Brighton, Red. Concord, Black. Delaware, Red. Martha,

White. Worden, Black. Two years old.

Moore's Early, Black. Niagara, White. Pocklington,

White. Vergennes, Red. 25c. each. \$2.50 per dozen.

Campbell's Early.—50c. each. \$4.00 per dozen.

RASPBERRIES

KANSAS (Black Cap).—Firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg.

MILLER RED.—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper.

MUNGER.—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy.

GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.

75c. per dozen. \$4.00 per 100.

BLACKBERRIES

ELDORADO.—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper.

WILSON, JR.—Very early.

EARLY HARVEST, ERIE.—Early.

LUCRETIA (Dewberry).—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above, 75c. per doz. \$4.00 per 100. By Express.

GOOSEBERRIES

DOWNING.—Two-Year-Old. Per half-dozen, \$1.25. Per dozen, \$2.50. Per 100 (by express), \$15.00.

HOUGHTON'S SEEDLING.—Per half-dozen, \$1.25. Per dozen, \$2.00. Per 100 (by express), \$14.00.

CURRANTS

CHERRY.—Per half-dozen, \$1.25. Per dozen, \$2.50.

FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality.

Per half-dozen, \$1.25. Per dozen (by express), \$2.50.

WHITE GRAPE.—Per half-dozen, \$1.25. Per dozen, \$2.00.

NUT-BEARING TREES

Spanish Chestnut, English Walnut, Paper-Shell Pecan, Filberts, Shellbarks, Hard and Soft-Shell Almonds.

50c. each. \$5.00 per dozen.

JAPAN CHESTNUT.—\$1.00 each. \$10.00 per dozen.

ORNAMENTALS

SILVER MAPLES (9 to 10 feet).—50c. each. \$5.00 per doz.

SILVER MAPLES (10 to 12 feet).—75c. each. \$9.00 per doz.

SUGAR MAPLES (8 to 9 feet).—75c. each. \$8.00 per doz.

SUGAR MAPLES (10 to 12 feet).—\$1.00 each. \$10.00 per doz.

NORWAY MAPLES (8 to 9 feet).—90c. each. \$10.00 per doz.

NORWAY MAPLES (10 to 12 feet).—\$1.25 each. \$13 per doz.

NORWAY SPRUCE (2 to 2½ ft.).—50c. each. \$5.00 per doz.

BALSAM FIR (2 to 2½ ft.).—75c. each. \$8.00 per doz.

MAGNOLIA GRAND (2 to 3 feet).—75c. each.

Prices on Other Varieties on Application.

SHRUBBERY

JAPAN MAPLES.—Mostly dwarf habit; several kinds weeping and cut-leaved, with brightly colored foliage—red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. \$1.50 each.

DEUTZIA GRACILIS, DEUTZIA CRENATA, LILAC (White and Blue); **SPIREA, RIEVESII; SPIREA, BUMALDO;** **SPIREA, CALOSA ALBA; HYDRANGEA, PANICULATA GRAND, CRAPE MYRTLE.** All 50c. each.

HARDY SHRUB BUSHES at 75c. each.

VINES

AKEBIA QUINATA, AMPELOPSIS VIETCHII, WISTARIA PURPUBIA, WISTARIA, ALBA, CLEMATIS (Large Flowering), **CLEMATIS** (Small Flowering)—All 50c. each.

ENGLISH IVY.—30c. each.

HONEYSUCKLE VINES at 25c. each.

NURSERY DEPARTMENT—Continued. **HEDGE PLANTS.**

CALIFORNIA PRIVET:

1 to 1½ ft.....	\$4.00 per 100.	\$30.00 per 1000
1 to 2 ft.....	5.00 per 100.	35.00 per 1000
2 ft.....	6.00 per 100.	40.00 per 1000
OSAGE ORANGE:		
One Year.....	75c. per 100.	\$6.00 per 1000

AMERICAN ARBORVITAE:

12 to 18 inches.....	25c. each.	\$12.50 per 100
2 to 3 feet.....	75c. each.	22.50 per 100
JAPAN HARDY ORANGE (Citrus Trifoliata).—Three Years Old.		
Each, 40c. Per dozen, \$4.00. Per 100, \$16.00.		

STRAWBERRY PLANTS

Directions for Culture.

Strawberries require well-tilled soil; the plants should be set 15 inches apart, in rows 2 feet wide. Firm the plants well in the soil and keep thoroughly cultivated.

CLYDE.—Very productive; early and as large as Bubach. Medium late. **CLIMAX.**—Very productive. Rich, handsome berry, strong and vigorous. Second early.

EXCELSIOR.—An early market variety, good for shipping. Medium size berry and very productive.

GANDY.—Standard late variety, bearing better in black swamp land than any other soil, but will thrive, however, in clay land.

GLEN MARY.—One of the best varieties, having large crimson and juicy fruit. Very productive and popular, growing well in any soil.

JOHNSON'S EARLY.—Second early; medium-size berry, extra fine. It should be planted in stiff, dry land.

LADY THOMPSON.—Strong, healthy plants, having medium large, firm berries, growing freely in drought and standing dry season well.

MICHEL'S EARLY.—A hardy grower, with large and firm berries of finest flavor. The best for early market.

NEW HOME.—Nearly as late as Gandy. Bright red fruit and fine for shipping.

WE offer a nice stock of Strawberry Plants of all the leading varieties. We can supply them at short notice, freshly dug and shipped direct from the nursery.

NICK OHMER.—Very large and productive, with glossy red globular berries of superior flavor. Superb for home use.

OAK'S EARLY.—Strong, vigorous grower, producing hardy plants which stand a long season. Extra early and a good shipper.

STEVEN'S LATE CHAMPION.—A new late variety, yielding heavy crops of large fruit of bright red color. A good keeper and canner.

SENATOR DUNLAP.—A good variety for amateurs, being healthy and easy to grow. Fruit is large, dark red and juicy. Hardy. Midseason.

TENN. PROLIFIC.—Reliable standard variety, bearing abundantly. Medium to late.

WM. BELT.—Good for home use, being a good bearer, with large berries. Stands drought well.

ZEITZER'S EARLY.—Extra early, productive, and a good shipper. The following varieties should have another perfect flowering sort near them:

BUSTER.—Vigorous and healthy. Medium to late.

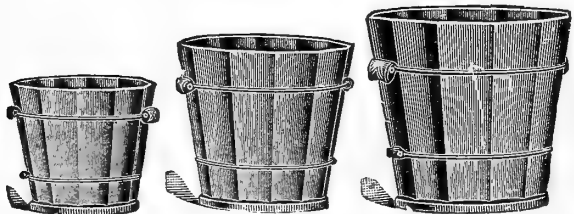
BUBACH.—A large and strong grower. Early.

CRESCENT.—Standard variety, producing fine berries. Medium to late.

PRICE.—Any variety, strong, healthy layer plants, 25c. per doz.; 75c. per 100; \$4.00 per 1000. Ready October 15. Pot-grown plants will be ready for delivery after September 15. Price: per doz., 75c.; per 100, \$4.00. Orders for same should be in by August 1, 1911.

BY EXPRESS, NOT PREPAID.

PLANT TUBS



COLUMBIA, No. 1 PLAIN.

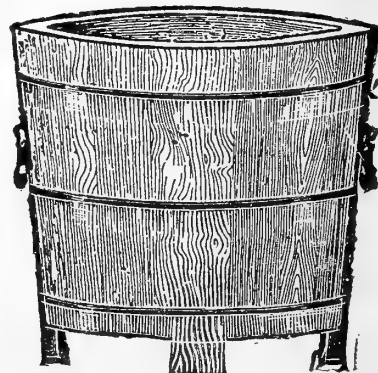
Made of cypress. Natural varnish finish on the wood, or if wanted can finish them in oil paint, but to order only.

12 inches in diameter by 11 inches high.....	Each	\$1.00
15 inches in diameter by 14 inches high.....	Each	1.50
18 inches in diameter by 16½ inches high.....	Each	2.00
21 inches in diameter by 18½ inches high.....	Each	2.50
24 inches in diameter by 20½ inches high.....	Each	3.00

Small Wood Flower Tubs

	Top Diam., Inches.	Deep., Inches.	Weight, Pounds.	Price.
A.....	8	9	2	\$.45
B.....	11	9	3	.50
C.....	11	12	3½	.65
D.....	12	12	4¾	.85

U. S. PLANT TUBS



Cedar, Painted Green.

No.	Diameter.	Depth.	Price.
No. 1.....	15½ in.	12 in.	\$1.00
No. 2.....	14¾ in.	14 in.	1.25
No. 3.....	16 in.	16 in.	1.75
No. 4.....	19 in.	18 in.	2.25
No. 5.....	21 in.	20 in.	3.00
No. 6.....	25 in.	22 in.	4.00

INDURATED FIBRE WARE

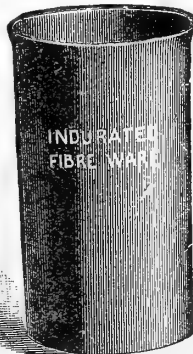
A light, strong material, impervious to moisture, moulded into one piece, seamless and rust-proof. Finished in a rich mahogany color.

Fibre-Ware Rolling Stand



Fibre-ware rolling stands are mounted upon ball-bearing casters and furnish an easy and ready means of moving heavy plants in permanent or temporary locations.

Outside Diameter.	Will take tub diameter at bottom.	Price, Each.
16 inches.....	13 inches.....	\$1.15
18 inches.....	15 inches.....	1.25
20 inches.....	17 inches.....	1.50
22 inches.....	20 inches.....	1.85



Florists' Vases

For displaying cut flowers.

Diameter.	Depth, Inside.	Price, Each.
4½ in.....	15 in.....	60c.
5½ in.....	18 in.....	75c.
8 in.....	13 in.....	75c.

Fibre Flower Pot Saucers



Cleaner and More Durable Than Pottery.

Diameter.	Price, Each.	Per 100.
6 in.....	14c.....	\$11.50
7 in.....	15c.....	12.50
8 in.....	16c.....	13.50
10 in.....	18c.....	15.50
12 in.....	20c.....	18.50

Horticultural Tools and Supplies

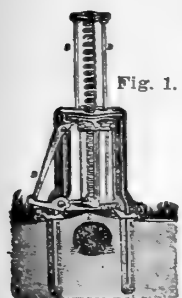


Fig. 1.

Olmstead Mole Trap.



Fig. 2.



Fig. 3.



Fig. 6.

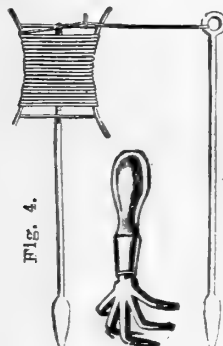


Fig. 4.



Fig. 5.

BEST ASPARAGUS BUNCHER, \$1.50.



Asparagus Buncher.

Made of solid steel; see the cutting point. Price, 30c. each. By mail, 40c.

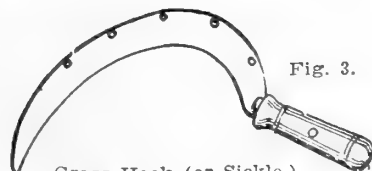


Fig. 3.

Grass Hook (or Sickle.)



Fig. 9.

GRASS EDGING KNIFE.



Fig. 13.



Fig. 10.



Fig. 12.



AMERICAN STEEL TROWEL.

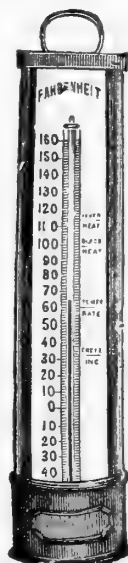


Fig. 15.



Fig. 14.

L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP (Fig. 1.)

No Cheap Trap So Good. No Good Trap So Cheap. This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case. Price, \$1.50 each.

OUT OF SIGHT MOLE TRAP (Fig. 2.)

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hotbeds and frames on account of the convenient size. Price, \$1.00.

THE MODEL MOLE TRAP.

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass. Price, \$1.75.

G. & T. MOLE TRAP.

This is a good Mole Trap for the money. Price, \$1.00.

THE LITTLE GIANT MOLE TRAP.

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. Price, 75c.

GARDEN REELS (Fig. 4.)

Small size.....60c. Large size.....75c.

EXCELSIOR WEEDER (Fig. 5.)

Price.....10c. Mailed.....15c.

LARGE HAND WEEDER (Fig. 6.)

Malleable Iron Hand Weeder.....15c. Solid Steel Hand Weeder.....25c. By mail, 10c. extra.

DIBBLERS.

For transferring plants. By far the best thing for the purpose ever introduced.

Fig. 8—Right-angle shape, steel-polished, wood handle, 40 cents.

EDGING KNIVES (Fig. 9.)

9-inch, American....\$.75 9-inch, Eng., black...\$1.35 8-inch, Eng., black...1.25 10-inch, Eng., black...1.50

SCUFFLE HOES (Fig. 10.)

4-inch.....50c. 8-inch.....70c. 6-inch.....60c. 10-inch.....80c.

PLANTAIN TROWEL (Fig. 14.)

No. 2—5-inch blade...15c. No. 1—8-inch blade...25c.

GARDEN TROWEL (Fig. 11.)

Sixteen gauge tool steel, 6-inch blade, a handle that will not come out in dry weather. Price, 25c.

GARDEN TROWELS (Fig. 12.)

Best forged English steel, socket handle, strong and durable, 6-inch.....40c. English, 7-inch.....50c. American, 6-inch bright steel blade, plain handle...5c. American, 6-inch tinned steel blade, enameled handle.10c.

EUREKA HAND WEEDER (Fig. 13.)

A Very Handy and Useful Little Instrument.

Short handle.....25c. Long handle.....35c.

THERMOMETERS (Fig. 15.)

8-inch, tin, japanned, No. 20.....\$.15 10-inch, distance reading, No. 8......25 8-inch, cabinet, No. 201 H......50 10-inch, tin case, best quality, No. 31......60 Porcelain scale, red spirit, No. 251, 8-inch.....1.00 Porcelain scale, 10-inch, mercury, No. 252.....1.50 12-inch, tobacco curing, No. 0......35 Registering (sixes), No. 650, 8-inch.....2.50 Mushroom bed.....1.25 Dairy or hotbed, glass float......50 Glass floating, large......50 8-inch standard flange, stands boiling water......60 Milk Hydrometer, No. 2080......40 Milk Hydrometer, No. 2085 (Quevenne)......75 Incubator, upright......60 Incubator, reclining......65 Brooder, No. 6......50

GRASS HOOKS (Fig. 3.)

American, plain.....\$.25 American, Blue Ribbon......40 German—No. 0.....\$.25 German—No. 2......35 German—No. 1......30 German—No. 3......45 Best English Grass—No. 2......35 Best English Grass—No. 3......50 Best English Hedge or Grass Hooks—No. 4......60 Best English Hedge or Grass Hooks—No. 5, riveted back......75

HORTICULTURAL TOOLS AND SUPPLIES — Continued

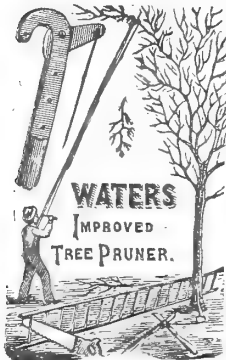


Fig. 17.

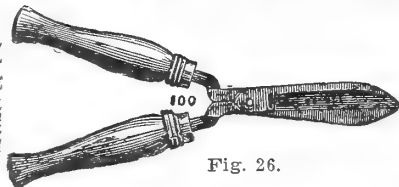


Fig. 26.

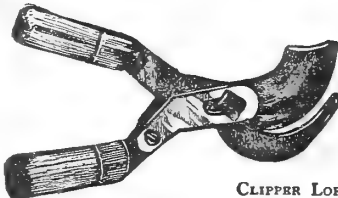


Fig. 27.

CLIPPER LOPPING SHEAR.

Fig. 18.



Fig. 28.

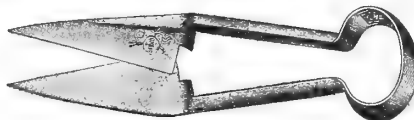


Fig. 29.



Fig. 19.



Fig. 30.



Fig. 20.



Fig. 21.

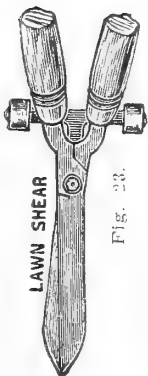


Fig. 22.



Fig. 23.

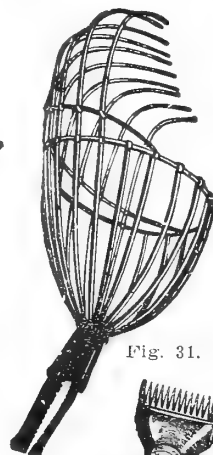


Fig. 31.



Fig. 32.

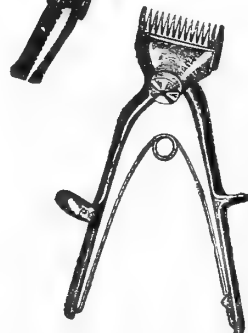


Fig. 25.

WATERS' TREE PRUNER

4 feet long.....	\$.75
6 feet long.....	.85
8 feet long.....	1.00
10 feet long.....	1.10
12 feet long.....	1.25

Extra Knives, 20c.

"RED CLIPPER TREE PRUNER"

4 feet long.....	\$.90
6 feet long.....	1.00
8 feet long.....	1.15
10 feet long.....	1.25
12 feet long.....	1.50

TELEGRAPH TREE PRUNERS.

Price without pole, \$1.00. Extra blades, 20c.

PRUNING SAWS.—Fig. 20.

16-inch double.....	\$.65
18-inch double.....	.75
20-inch double.....	.85
Saw and Chisel, combined.....	1.10

PRUNING KNIVES.—Fig. 22.

No. 126—Iron Handle.....	50c.
No. 2173—Cocoa Handle.....	65c.

BUDDING KNIVES.

Prices—No. 12.....	\$1.00
No. 10.....	\$1.25

ASPARAGUS KNIFE.—Fig. 28.

Made of solid steel, 30c. By mail, 40c.

PRUNING SHEARS.—Fig. 21.

No. 33—Coil Spring, Mal. Handle, Steel Blade.....	\$.30
No. 4—Flat Spring, Steel Blade.....	.40
No. 1537—Solid Steel, half polish, 8-inch.....	.50
No. 4665—Solid Steel, 9-inch.....	.75
No. 4666—Solid Steel, full polish, 9-inch.....	1.00
No. 2—French Pruning, 8½-inch.....	1.25
No. 4770—Ladies', nickel-plate, 6-inch.....	1.00

If wanted by mail, add 15c.

HEDGE SHEARS.—Fig. 26.

No. 100—8-inch.....	\$1.25
No. 100—9-inch.....	1.50
No. 100—10-inch.....	1.75
No. 100—12-inch.....	2.25
No. 101—8-inch, with notch.....	1.50
No. 101—9-inch, with notch.....	1.75
No. 101—10-inch, with notch.....	2.00
No. 101—12-inch, with notch.....	2.50

LOPPING SHEARS.—Fig. 27.

No. 5—American, or Tip Top.....	\$1.00
No. 4—American, or Tip Top.....	1.25
No. 1—Baltimore Draw Cut.....	2.50
No. 2—Baltimore Draw Cut.....	2.25

SHEEP SHEARS.—Fig. 29.

No. 3749.....	\$.85
No. 3755—Full polish.....	1.00

By mail, add 15c.

GRASS SHEARS.—Fig. 24.

No. 360—Bent Handle.....	35c.
No. 460—Trowel Handle.....	50c.

By mail, add each 15c.

LAWN SHEARS.—Fig. 23.

No. 1062—2 wheels, 8-inch blade, for cutting on narrow borders, under fences and shrubs, \$2.75.

BORDER SHEARS.—Fig. 18.

No. 104—Price, without wheel.....	\$2.25
No. 105—Price, with wheel.....	2.50

HORSE SHEARS.—Fig. 19.

No. 1087—Bent Handle.....	\$.50
No. 1090—Curved Handle.....	.60

By mail, add 15c.

HORSE SCISSORS.

No. 9162—Extra fine.....	\$1.25
--------------------------	--------

By mail, add 15c.

SCYTHE STONES.—Fig. 32.

No. 2—White Mountain.....	10c. each.	\$1.00 doz.
No. 3—Green Mountain.....	8c. each.	75c. doz.
No. 4—Indian Pond, No. 2 (red end).....	5c. each.	50c. doz.
No. 5—Mowing Machine (beveled).....		10c.
No. 6—Darby Creek.....	10c. each.	\$1.00 doz.
No. 7—Imported English Talacre.....		20c. Each

None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

WIRE FLIERS.

Fence Wire Cutters, 6-inch, 40c.; 8-inch, 50c.; 10-inch, 60c.

HORSE OR DOG CLIPPERS.—Fig. 25.

Very handy about horses; also for clipping dogs.	
No. 20—Horse.....	\$1.00
No. 40—Horse, ball-bearing.....	1.75
No. 65—Horse, Fetlock, nickel-plate.....	1.00
No. 203—Toilet or Fetlock, nickel-plate.....	.90

FRUIT PICKER.—Fig. 31.

This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy galvanized wire and easily adjusted to a pole. 30c. Postage, 15c. each.

FLOWER AND GRAPE SCISSORS.—Fig. 30.

No. 3791—Flower Gatherer.....	\$.90
No. 3774—Grape Pickers.....	.50
No. 3794—Grape Thinning Scissors.....	1.00

5 cents extra for postage.

Florist and Garden Supplies

PLANT SPRINKLERS



PUTTY BULB.

For sprinkling cut flowers, seedlings, plants, clothes, etc.

PLANT SPRINKLERS

No. 1—Standard, 12 ounces.....	95c.
No. 2—Standard, 7 ounces.....	85c.
No. 2—Regular, 12 ounces.....	85c.
No. 3—Regular, 7 ounces.....	75c.
No. 4—Regular, 4 1/4 ounces.....	55c.

By mail, 10c. extra.

Putty Bulbs.....\$1.10

By mail, 10c. extra.

We do not guarantee rubber goods.



Mastica Glazing Machine

Price, \$1.25.

Mastica.— For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

Half gallon.....	\$.70
Gallon.....	1.25



Burlap Hot-Bed Mats

Made of strong burlap, interlined with wool.

Price, 40x76, each.....\$.75

Price, 76x76, each.....1.25

Special Price in Dozen Lots.

Plant Bed Cloth

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

Light grade.....	6c.	yard
Piece of about 65 yards.....	5c.	yard
Medium grade.....	9c.	yard
Piece of about 60 yards.....	8c.	yard
Heavy grade.....	12c.	yard
Piece of about 40 yards.....	11 1/2 c.	yard

Grafting Wax

1/4 lb.....	10c.
1/2 lb.....	20c.
1 lb.....	35c.

Sphagnum Moss

For packing growing Orchids, Plants, etc. Per bale.....\$2.50

Stable Brooms

For Stables, Lawns and Walks.

14-in. Block, 14-knot Bass.....	\$.60
14-in. Block, 16-knot Bass.....	.75

Raffia

The best material for tying plants, vines, etc. Per pound, 20c. 10 pounds, \$1.50.

SILKALINE, spool, 25c.

Marling

Furnished in 1, 5, 10, 15 and 20-lb. bales. 5-lb. Bales.....\$1.40, per pound 1-lb. Bales.....15c. per pound

Special Prices in Quantities.



Ironclad Watering Pots

With Adjustable Nozzles.

4-quart.....	40c.	10-quart.....	70c.
6-quart.....	50c.	12-quart.....	75c.
8-quart.....	60c.	16-quart.....	90c.
20-quart.....	\$1.15		

Wotherspoon Make.

6-quart.....	\$1.85	10-quart.....	\$2.25
8-quart.....	2.00	12-quart.....	2.60

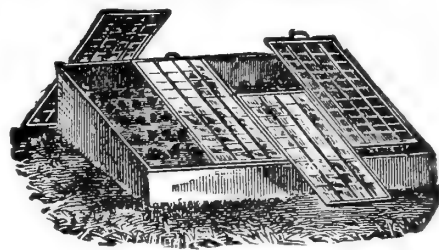
Twemlow's Old English Glazing Putty

Semi-Liquid.

16-pound can (1-gallon capacity)...\$1.40

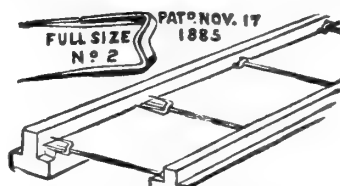
80-pound kits (5-gallon capacity)... 6.90

For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds.



Unglazed Hot-Bed Sash

3x6 feet.....Price, 90c.



Peerless Glazing Points

(Imp. Van Ruyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

Per box of 1000.....	60c.
By mail.....	75c.
In lots of 5000 (by express), per 1000.....	55c.
Pincers, per pair.....	50c.
By mail.....	60c.

Heavy or Dahlia Stakes

	Each.	Per Doz.	Per 100.
3 feet.....	7c.	\$.75	\$4.85
4 feet.....	10c.	1.10	6.50
5 feet.....	11c.	1.25	8.15

Light Plant Stakes

	Each.	Per Doz.	Per 100.
1 1/2 feet.....	2c.	17c.	\$1.00
2 feet.....	3c.	28c.	1.70
2 1/2 feet.....	5c.	39c.	2.40
3 feet.....	5c.	51c.	3.20

Brass Garden Syringes

No. 101—1x12, Rose and single stream.....	\$1.50
No. 102—1 1/4x16, Rose and single stream.....	3.00
No. 103—1 1/2x16, Rose and single stream.....	3.75
No. 109—1 1/4x16, Single stream and two roses.....	4.50
No. 110—1 1/2x18, Single stream and two roses.....	4.00

Model Extension Carnation Support

Endorsed by all the leading Carnation growers as the best support on the market. Price, dozen, 60c.; 100, \$3.50.

Special Price in 1000 Lots.

Cane Stakes

5 to 7 feet long.

Per 100.....	\$1.00
Per 1000.....	\$6.00

Pot Labels

	Plain.	Painted.
4 -inch, per 1000.....	\$.70	\$.85
4 1/2 -inch, per 1000.....	.85	1.00
5 -inch, per 1000.....	1.00	1.25
6 -inch, per 1000.....	1.25	1.50
12-inch, per 100.....	75c.	

Special price in quantities to florists.

Galvanized Hard Steel Plant Stakes

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

Length.	Per 100.	Per 1000.
2 1/2 feet.....	\$.75	\$6.25
3 feet.....	.90	7.75
3 1/2 feet.....	1.10	9.00
4 feet.....	1.25	10.00
5 feet.....	1.50	13.00

Painted Tree Labels

Per 1000.

3 1/2 -inch, notched or pierced.....	\$.80
3 1/2 -inch, iron wired.....	1.00
3 1/2 -inch, copper wired.....	1.25

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

MIDGET TIN HOUSE SPRAYER



Similar to Tin Can Sprayer, only smaller. Holds half pint. Indispensable in every household. Just the thing for disinfecting sick rooms, drains, vaults, kennels, etc. Also rose bushes or any small shrubbery.

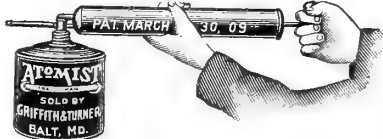
Will successfully apply any non-sedimental liquids. Price, **35c.**



TIN CAN SPRAYER

One-half tablespoonful of Paris Green and one filling with water is sufficient to destroy all the bugs on 1300 hills of potatoes. Either soldered ends or turn-over ends. Our Special Price, **50c.**

"ATOMIST" SPRAYER



IT THROWS A CONTINUOUS SPRAY

The "ATOMIST" HAND SPRAYER is a very simple and inexpensive device. The whole appliance is self-contained and easily operated by hand.

It has a quart reservoir of heavy tin and the pump is attached to it. The pump is very compact and durable and a continuous spray is thrown. The siphon tube and working parts of valve and nozzle are brass, and are practically indestructible.

The spray is created by the use of a check valve, which automatically holds the air pressure in the reservoir. This check valve is contained in the valve seat of the plunger tube.

The pump may be unscrewed with one operation, so that the reservoir is readily filled. Our Special Price, **75c.** An extra under leaf nozzle can be furnished at the small cost of **10c.**

GRITCO POWDER GUN

Our Special Price, **65c.**



Impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry, it will be impossible for the same to clog.



For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeaux Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

This Machine keeps the Poison at a Safe Distance from the Operator.

Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap. Anyone can use it. Weighs, cased for shipping, 14 pounds.

Our Special Price, **\$3.00.**
LEGGETT'S LITTLE GIANT POWDER DUSTER is similar to the above, and does very good work. Our Special Price, **\$6.00.**

Little Giant Brass Spray Pump and Fire Extinguisher with Agitator

Fig. 639. This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

PRICE LIST OF PUMP SHOWN.

No. 321 1/2, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle. Factory List Price, **\$4.50.** Our Special Price, **\$3.50.**

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension. Factory List Price, **\$5.00.** Our Special Price, **\$3.85.**



Lever Bucket Spray Pumps

For Whitewashing and Painting, always Use Bordeaux Nozzle. One-and-One-Quarter-Inch Cylinder. Notice the Lever and Patent Agitator. Observe Their Advantages. Can be Used in Bucket or Can be Attached to Top of Barrel.

If wanted for whitewashing or painting, so state in order, and Bordeaux Nozzle will be sent. If a stopcock is wanted, the price will be 50 cents extra on either the below named Bucket Pumps.

Fig. 632. No. 324. Lever Bucket Pump, complete with hose and nozzle. Factory List Price, **\$6.00.** Our Special Price, **\$4.25.**

No. 324A. Lever Bucket Pump with Agitator, complete with hose, nozzle and eight-foot pipe extension. Factory List Price, **\$6.50.** Our Special Price, **\$4.60.**

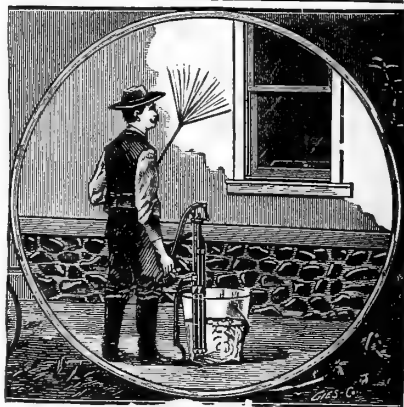


Fig. 632.

BRASS BARREL SPRAY PUMPS

Cylinder Valves, Valve Seats and Discharges, All Brass.	Factory List Price.	Our Special Price.
No. 394. Pump only, without hose or nozzle.	\$8.50	\$6.50
No. 395. Pump with 15 ft. No. 1-1/2" Spray Hose and Vermorel or Bordeaux Nozzle.	12.00	9.00
No. 395. Pump with 15 ft. No. 2 Wire Wound 1/2" Spray Hose, and Vermorel or Bordeaux Nozzle.	13.40	9.75
No. 396. Pump with two leads of No. 1-1/2" Spray Hose, and two Vermorel or Bordeaux Nozzles.	16.00	12.00
No. 396. Pump with two leads of No. 2 Wire Wound 1/2" Hose, and two Vermorel or Bordeaux Nozzles.	18.50	13.50
Paddle Agitator, extra.	1.00	.75

For Extension Rods, see page 61.



THE ACME POWDER GUN



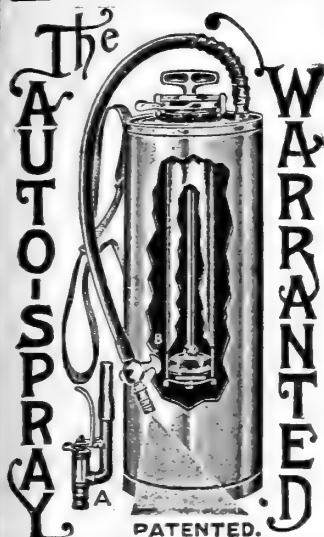
Applies any powdered poison on any plant in any desired quantity any time of the day, and does it right. We also furnish spreader for distributing the blast. Our Special Price, **75c.**

PLASTER SIFTER

Handles land plaster and any similar substance without the necessity of covering the hands or the clothing with the poisoned powder. We furnish a false bottom, which prevents any clogging the agitator. Our Special Price, **50c.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN



The Auto-Spray

Weight empty, 7 lbs.
Weight loaded, 39 lbs.
Weight snipping, 12 lbs

**A Self-Operating
or Automatic Sprayer.**

Length of cylinder, 21-in.;
diameter of cylinder, 7 inches;
capacity, about 4 gallons;
weight, empty, 7 pounds.

Auto-Spray No. 1C—Galvanized Reservoir, Stop Cock. Factory List Price, \$5.00. Our Special Price, \$4.50.

Auto-Spray No. 1D—Galvanized Reservoir, Auto-Pop. Factory List Price, \$6.00. Our Special Price, \$5.40.

Auto-Spray No. 1A—Brass Reservoir, Stop Cock. Factory List Price, \$7.50. Our Special Price, \$6.75.

Auto-Spray No. 1B—Brass Reservoir, Auto-Pop. Factory List Price, \$8.50. Our Special Price, \$7.65.

Auto-Pop Nozzles, \$1.25.
Extension Pipe, brass, 2-ft. length, 50c.; galvanized, 40c.
Brass Elbow Extension, 50c.

THE "BRANDT" SPRAYERS



Tanks made of heavy brass or galvanized steel; will not rust or corrode. Tested with four times more pressure than used for spraying, and will not burst. Filler plug and connections made of brass. The shoulder strap and body rest makes it easy and convenient to carry. Capacity 3 gals. Weight, 7 lbs. Pump has a brass air reservoir. In the plunger is a check valve for air to pass through on return stroke, making it easy to operate and doubling its capacity.

Nozzles made on a new principle and work with a combination of liquid and air which produces 7 lbs. of pressure, giving a fine mist-like spray.

The Brass Double Nozzle sprays two rows at one time, thus doing twice the work. The width between the rows is regulated by raising or lowering the pump.

Tree Nozzle works on the same principle as above nozzles, but has a 3-foot brass extension for higher spraying.

No. 4 Bordeaux Nozzle is for all heavy solutions, like Bordeaux mixture, whitewash, etc. It has larger openings, and is used on large Sprayers.

No. 2 Cap is for the same purpose, and is used on the double and tree nozzle.

A1 Quart Funnel, with brass wire strainer, accompanies above Sprayers for use in filling.

No. 2 Galvanized Pump and Shut-off Nozzle, \$5.00. No. 3 Brass Pump with Shut-off Nozzle, \$6.75. No. 4 Bordeaux Nozzle, 75c. Tree Nozzles, \$1.50. No. 2 Caps, 35c. Double Nozzles, \$1.50. See that shut-off nozzle in cut.



THE "UNIVERSAL SUCCESS" SPRAYER

All working parts are brass, including brass ball valves. A sliding cover prevents the liquid from splashing; also removable strainer is provided. Four feet of hose and an extension pipe furnished. Full directions with each pump. With each pump is shipped extra one small rubber discharge plug, which fits into any ordinary basin or bath tub waste opening for forcing out obstructions; one fire protector nozzle and buggy washer, in addition to Bordeaux Nozzle that is attached to extension rod. Capacity 5 gals. Boxed for shipment outfit weighs about 30 lbs.

Outfit with Galvanized Tank. List Price, \$10.00; Our Special Price, \$6.75.

Outfit with Brass Tank. List Price, \$14.00; Our Special Price, \$10.00.



The Lever Knapsack Spray Pump

Fig. 547.—No. 330.
Galvanized.

Tank holds 5 gallons, is fitted with lid, and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet ½-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream, or shut off entirely.

Factory List Price, \$10.00; Our Special Price, \$7.00.

The Perfect Knapsack Spray Pump

Fig. 547.—No. 331. Copper.

Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop cock, pipe extension and Bordeaux nozzle.

Factory List Price, \$16.00; Our Special Price, \$11.25.



Water Truck and Barrel

For other combinations, see page 69.

For San Jose Scale Use

KIL-O-SCALE

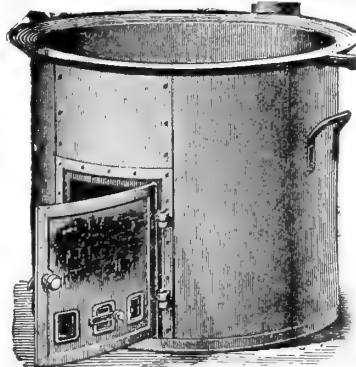
Any of the barrel Pumps installed in barrel and truck, as shown in cut, furnished with wood or steel wheels.

	Factory List Price.	Our Special Price.
Truck with Reg. Tire and Barrel.....	\$15.00	\$8.50
Truck with 2½-inch Tire and Barrel.....	16.20	9.25
Truck with 3½-inch Tire and Barrel.....	17.40	10.00

Use KIL-O-SCALE

To Destroy San Jose Scale
See page 64.

Cook Your Lime and Sulphur With G. & T. Boiler and Feed Cooker



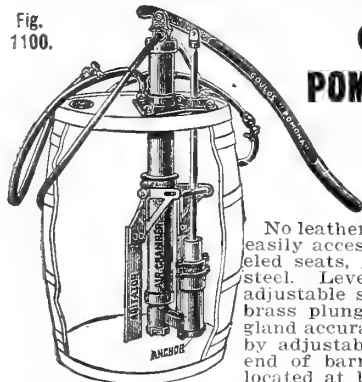
Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on; Kettles smooth, heavy cast iron. Door, frame and flue-collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur wash.

Prices of G. & T. Boiler and Cooker.

Actual Capacity.	Diam. of Furnace.	Shipping Weight.	Factory List Price Furnace with Kettle.	Our Special Price Furnace with Kettle.	Factory Price Kettle only.	Our Special Price Kettle only.
30 gals.	26 in.	150 lbs.	\$13.00	\$10.40	\$7.00	\$4.90
33 gals.	28½ in.	175 lbs.	14.00	11.20	8.00	5.60
48 gals.	31½ in.	200 lbs.	16.50	13.20	12.00	8.40
53 gals.	32 in.	225 lbs.	18.00	14.40	13.00	9.10
75 gals.	36 in.	275 lbs.	24.00	19.20	18.00	12.60

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

Fig. 1100.



GOULD'S POMONA SPRAY PUMP

With Agitator. All Working Parts Bronze.

Plunger—Diameter, 2 1/2 inches; stroke, adjustable to 3, 4, 5 in.; discharge, 1/2-in. hose.

No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, ground to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5-inch. Solid brass plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit end of barrel, and by a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle. For those preferring these Pumps with brass pipe plunger rod instead of iron, can furnish same \$1.50 extra list; \$1.00 retail. If Pressure Gauge is wanted on Fig. 1100, add list \$3.60; retail \$2.25.

Fig. 1100 Pump only with Agitator and Hose Coupling.	Plunger.		Double Discharge.	List Price.	Our Special Price.
	Dia.	Stroke.			
	2 1/2 in.	Adjustable 3, 4 or 5 inches	1/2 in hose 3/4 in. pipe	\$20.50	\$12.50

Fig. 1100. Outfit A, for Single Lead. With hose bands, couplings, agitator and 1 Mistry, Jr., Vermorel, or Bordeaux Nozzle, but without hose..... \$22.50 \$13.50

Fig. 1100. Outfit B, for Double Lead. With hose bands, couplings, agitator and 2 Mistry, Jr., Vermorel, or Bordeaux Nozzles, but without hose..... \$25.75 \$15.50
 Rubber hose, extra, per foot, 1/2" Oriole .17 .10 1/2
 1/2-inch spray, No. 1..... .24 .15
 1 1/2-inch spray, No. 2, wire wrapped.... .34 .20
 Barrel extra, either outfit..... 5.00 2.50

Any of the pumps on this page are peculiarly adapted to the use of lime and sulphur solution, but can also be used for other insecticides and whitewashing.

GOULD'S "FRUITALL" SPRAY PUMP

With Agitator. All Working Parts Bronze.

Fig. 1188.



"Fruitall" Spray Pump is made on the same general lines as the now famous "Pomona." It is, however, lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are of brass. Regularly fitted with wing agitator similar to one used on "Pomona," and which has proven to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitted over end of stave. Not made for side of barrel. The agitator is a perfect working device and answers every purpose for anyone desiring a lighter and cheaper pump. For those preferring brass pipe plunger rod instead of iron pipe, can furnish same \$1.50 extra list; \$1.00 retail.

Pump only with Agitator and Hose Coupling.	Plunger.		Discharge.	List Price.	Our Special Price.
	Dia.	Stroke.			
	2 in.	4 in.	1/2 in hose	\$12.00	\$7.50

Outfit A, for One Lead of Hose. With hose bands, couplings, agitator and 1 Mistry, Jr., Vermorel, or Bordeaux Nozzle, but without hose..... \$13.00 \$8.00

Outfit B, for Two Leads of Hose. With hose bands, couplings, agitator and 2 Mistry, Jr., Vermorel, or Bordeaux Nozzles, but without hose..... \$16.50 \$10.00
 Rubber hose, extra, per foot, 1/2" Oriole .17 .10 1/2
 1/2-inch spray, No. 1..... .24 .15
 1 1/2-inch spray, No. 2, wire wrapped.... .34 .20
 Barrel extra, either outfit..... 5.00 2.50

GOULD'S Improved "Monarch" Two-Cylinder Spray Pump

Fig. 1506.



Vertical Outside Packed, Bronze Plungers, Bronze Glands, Valves, Etc.

High Grade Sprayer for Orchard Work. Also for Whitewashing.

Fig. 1506—Has two bronze plungers operating in two vertical cylinders, which are packed with a material unaffected by spraying solutions. This construction permits all gritty particles to pass through valves and out; does not grind the cylinder. Ports are large and direct. Valves are bronze, ground to fit their bronze seats, are accessible through handholes. Lever is so arranged as to be operated in two positions. Combines large capacity and ease of operation. This is the easiest operated Pump of its capacity on the market.

Pump only with Strainer and Hose Coupling.	Dia. Cyl.	Suction.	Double Discharge.	List Price	Our Spl. Price.
	2 in.	3/4 in hose	1/2 in hose	\$33.00	\$20.00

Fig. 1506. Outfit C, for One Lead of 1/2-in. Discharge Hose.

With hose bands, couplings and 1 Mistry, Jr., Vermorel, or Bordeaux Nozzle, but without hose..... \$35.00 \$21.50

Fig. 1506. Outfit D, for Two Leads of 1/2-in. Discharge Hose.

With strainer, hose bands, couplings and 2 Mistry, Jr., Vermorel, or Bordeaux Nozzles, but without hose..... 38.00 23.00
 If Pressure Gauge is wanted, add..... 3.60 2.25

GOULD'S ADMIRAL AND VICE-ADMIRAL SPRAY PUMPS

Double-acting and of sufficient capacity to supply four leads of hose or two leads each of two, three or four nozzles.

Have a removable brass lining which can be quickly withdrawn by removing cylinder head. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box. The bronze valves and bronze seats easily reached for examination. Air chamber is large. There are two discharge openings fitted for 1/2-inch hose.

"ADMIRAL" (Fig. 1508)—Diameter Cylinder: 2 1/2 inches. Suction: 1-inch hose. Discharge: 1/2-in. hose. Pump only with Strainer and Hose Coupling. List, \$40.00; Retail, \$23.50.

Outfit G—Fitted for 1-inch suction hose and 1 lead of 1/2-inch discharge hose, with couplings, hose bands, suction hose strainer and 1 Mistry Junior or other nozzle, but without hose. Hose extra. List, \$42.00; Retail, \$25.00.

Outfit H—Same as Outfit G, except it is fitted for 2 leads of hose and 2 nozzles, but without hose. Hose extra. List, \$46.00; Retail, \$27.50.

"VICE ADMIRAL" (Fig. 1509)—Is a modification of the "Admiral." It is fitted with Pitman that it may be readily attached to gasoline engine, making a very powerful, low-priced power sprayer of large capacity. Pump only with Strainer and Hose Couplings. List, \$40.00; Retail, \$23.50.

Outfit K—No. 2 Sprayer with pressure gauge, water relief valve, strainer (Fig. 1500), two brass Y connections and four large Mistry, Jr., or other nozzles, but without hose. List, \$60.00; Retail, \$35.00.

Rubber Hose for Above Outfits.			
1/2-inch Oriole, per foot.....	.17	.10	
1/2-inch spray, No. 1, per foot.....	.24	.15	
1/2-inch spray, No. 2, wire wrapped, per foot	.34	.20	
3/4-inch suction, per foot.....	.34	.20	
1-inch hard rubber suction hose, per ft...	.40	.25	

GOULD'S "EMPEROR" COMPLETE POWER OUTFITS

"EMPEROR"
POWER
SPRAYER

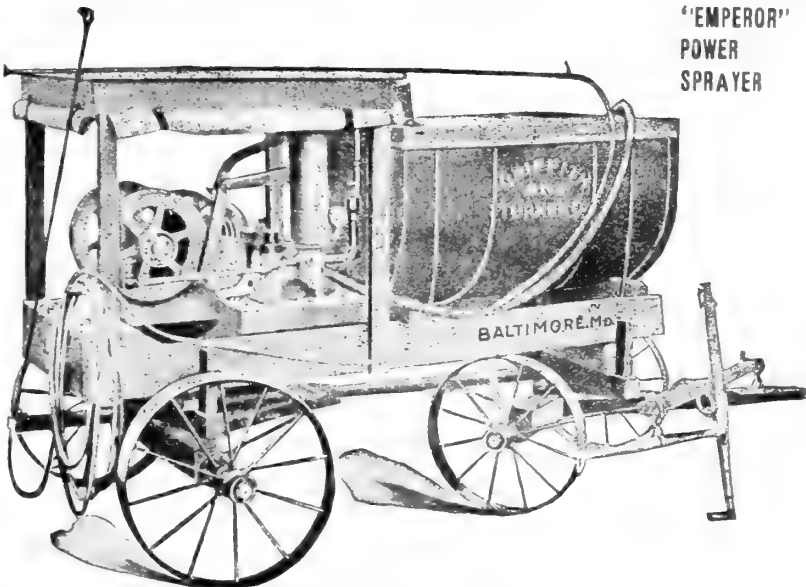
Our complete mounted outfit is constructed on practical lines in every sense of the word. Every working part is placed where it should be to make it convenient for the operator. It does not require a mechanical engineer to operate, as the engine has so few working parts and is so simple that any farm hand can operate it successfully. The pump is our "Emperor."

The construction is of the best, the lumber being selected quality. The frame work is held together with $\frac{1}{2}$ -inch rods. The engine house roof is covered with $\frac{3}{8}$ -inch matched lumber, built sufficiently strong to carry two men. The cab thoroughly protects the engine from the spray mixture; also from the weather when not in use. The tank is made of selected quality of pine, $1\frac{1}{4}$ -inch in thickness by 5 feet in length, and held together with four $\frac{1}{2}$ -inch round iron bands. Capacity of tank is 200 gallons. The mechanical agitator is operated by the engine. The relief valve is of improved pattern and may be readily adjusted. Complete information as to dimensions, etc., will be sent on application.

OUTFIT C.—Includes 3 H. P. engine mounted complete, connected with our new Gould's Emperor pump. This outfit is furnished as shown with double trees and yoke, front wheels 28x4 inches, rear wheels 32x4 inches, tank, engine cab, mechanical agitator, 10-foot 1-inch suction hose and strainer, two 25 ft. leads of $\frac{3}{4}$ -in. special 4-ply discharge hose, Y connections for each lead, four large Mistry nozzles, pressure gauge, water relief valve, shut-off for discharge, and two 8 ft. $\frac{1}{4}$ -in. black extensions with stop-cock, complete with battery and tool box. We strongly recommend this outfit. Tested at 200 lbs. pressure. Power will be furnished at a slight additional cost. **Price, \$375.**

OUTFIT D.—Same as above, less wagon; approximate weight, 1200 lbs. **Price, \$335.**

OUTFIT E.—3 H. P. engine, pump, hose, nozzles, relief valve, pressure gauge, mounted on substantial platform. Approximate weight, 700 lbs. **Price, \$275.**



OUTFIT F.—Cut above shows this outfit with our 2 H. P. air-cooled gasoline engine, otherwise equipped as Outfit C; guaranteed to run properly with pressure up to 150 lbs. (Every outfit is tested and runs properly at 175 lbs. before leaving our shops.) **Price, \$320.**

OUTFIT G.—Same as Outfit F, less wagon; approximate weight, 900 lbs. **Price, \$275.**

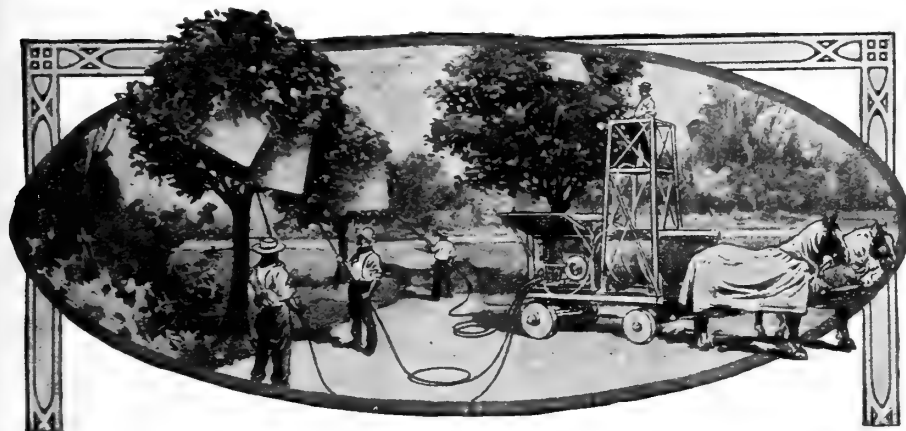
OUTFIT H.—Same as Outfit F, less mounting and tank, mounted on platform. Approximate weight, 500 lbs. **Price, \$235.**

WRITE FOR SPECIAL DISCOUNTS

WE CALL SPECIAL ATTENTION TO
ATOMIC SULPHUR
A SUBSTITUTE TO BORDEAUX MIXTURE

FOR FULL INFORMATION SEE PAGE 64

N. B.—Pulley is furnished with either above outfits, so the engine may be used for other work.



Cut shows above outfit at work in the field.

APPROXIMATE QUANTITIES PER TREE OF SPRAY SOLUTION REQUIRED FOR THOROUGH SPRAYING.

Age.	Peach.	Plum.	Apple.	Standard Pear.
Under 3 years...	$\frac{1}{4}$ to 1 gal.			
3 to 4 years...	1 to $1\frac{1}{2}$ gal.			
4 to 5 years...	$1\frac{1}{2}$ to 2 gal.	$\frac{1}{4}$ to 1 gal.	1 to 2 gal.	$\frac{1}{4}$ to $\frac{1}{2}$ gal.
5 to 6 years...	2 to $2\frac{1}{2}$ gal.	1 to $1\frac{1}{2}$ gal.	2 to 3 gal.	$\frac{1}{2}$ to $1\frac{1}{2}$ gal.
6 to 8 years...	$2\frac{1}{2}$ to $3\frac{1}{2}$ gal.		$2\frac{1}{2}$ to $3\frac{1}{2}$ gal.	$1\frac{1}{2}$ to 2 gal.
8 to 10 years...	$3\frac{1}{2}$ to 5 gal.	2 to 4 gal.	3 to 4 gal.	2 to $2\frac{1}{2}$ gal.
10 to 12 years...			$3\frac{1}{2}$ to 4 gal.	$2\frac{1}{2}$ to 3 gal.
12 to 15 years...			4 to 5 gal.	3 to $3\frac{1}{2}$ gal.
15 to 18 years...			$4\frac{1}{2}$ to 5 gal.	$3\frac{1}{2}$ to 4 gal.
18 to 20 years...			5 to 6 gal.	$3\frac{1}{2}$ to 5 gal.
20 to 25 years...			6 to 8 gal.	5 to 8 gal.
Over 25 years...			8 to 10 gal.	

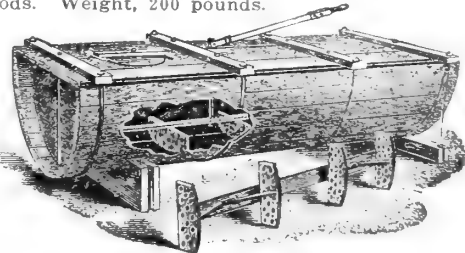
By the term spray solution is meant diluted material ready to spray. Above table is designed for calculating the quantity of material required to spray trees (after pruning) in the dormant stage.

Dwarf Pears will require about half the quantity recommended for Standard Pear Trees.

SPRAYING TANKS

We are having our tanks made of clear Gulf Cypress, it being found to be far superior to pine, which is used by most manufacturers.

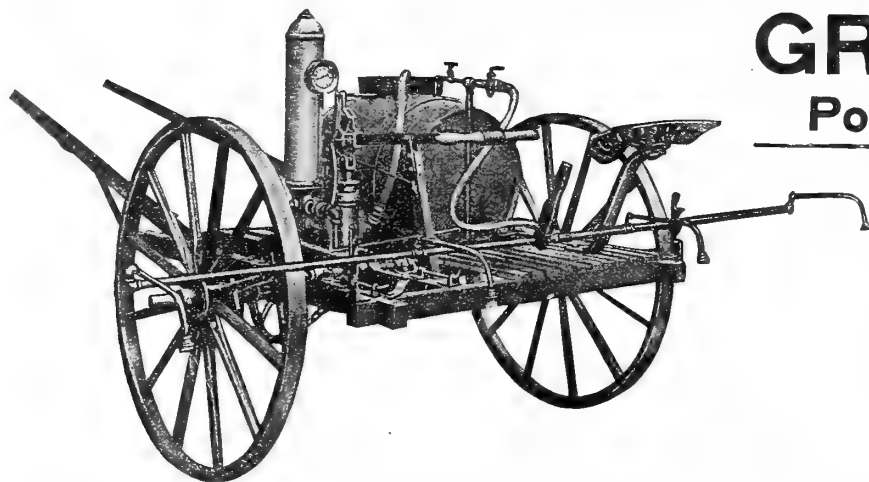
These tanks are strongly gripped with steel rods. Weight, 200 pounds.



Style No. 1—Capacity, 200 gallons; 5 ft long outside; inside measurement, 3 ft. wide, 31 inches deep.

Made from $1\frac{1}{4}$ -inch clear Gulf Cypress; $\frac{3}{4}$ -inch pine top. **Our Special Price, \$20.00.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Simplicity, Effective, A Child Can Operate It

The importance of properly spraying potatoes has caused such a keen competition among the manufacturers of potato spraying machinery that it is now reduced to the "survival of the fittest."

A manufacturer who confines himself solely to the building of Potato Sprayers must certainly be in a position to erect a machine to do the best work. Such a machine will be found in the **GRITCO-H**. The **GRITCO-H** is sold on its merits and warranted to do the work claimed for it.

The **GRITCO-H** Traction Sprayer is the simplest and most effective Sprayer on the market today, as it is the simplest to operate and the lightest draft Sprayer made, and is equipped with both ground and orchard attachments, making two machines in one, weighing about 600 pounds.

The **GRITCO-H** for ground use sprays 4 and 5 rows, and the operator has under control at all times the adjusting of the main spray pipe and nozzles in a body to be shifted to the right or left, and also to raise or lower in contact with the wind, and in a bracket to height of plant, and each individual nozzle is adjustable to the spacing of any width of row, and each nozzle can be set at any known angle. And note this, that all the above adjustments are instantly made without the use of any tool or wrench.

The operator also has by the use of a relief valve any required amount of pressure of fluid shown by a steam gauge; the return of fluid to barrel or tank acting as an agitator, which is the best system of agitation known, as the return pipe passes to the bottom of the tank, and thereby you have a live agitation all the time.

For orchard use we detach the ground hose to the main feed pipe and couple on the orchard hose, and by closing the return valve to the tank and also the outlet valve to the nozzles and throwing the machine into gear and driving from tree to tree, or a distance of 30 to 40 feet, we can store 100 to 150 pounds of fluid, and then when we open the valve to the nozzles we can spray the tree, close the same, drive to the next tree and open and spray again and repeat same.

All the inner parts of the **GRITCO-H**, the tank, barrel, pipings and all interior parts are coated with a solution that is a preventative to the eating of the fluids and rust, which is a great help in the life of the machine; and we can by removing the suction hose from the tank or barrel, and by placing the same in a clean vessel of water, pump it through the whole machine and put a pail or two of clean water into the tank or barrel, pull the plug out in the bottom of same, and you always have a clean machine. This is a great saving to the Sprayer. We space our wheels on the axle, and the wheels are on a ratchet, so that either or both will drive.

There is one great advantage the **GRITCO-H** has over any other Potato Sprayer of which we have any knowledge—the arrangement by which the sprayer bar can be placed at any angle when spraying on hillsides, so that the nozzles on the decline of the hill will be as close to the vines as those on the upper side.

Another advantage we have is that this Sprayer will hold the pressure to that for which it is set, and no matter how slow or fast the team walks, the pressure will remain the same, while with most of the air compressed pumps the pressure is consequently varying, being controlled entirely by the speed of the team. This is owing to the fact that it is equipped with our now celebrated Gould's Monarch Pump, which is not an air compressed Sprayer.

The **GRITCO-H** Traction Sprayer is in a class by itself, and is today the most complete outfit on the market.

We stand ready to place the **GRITCO-H** in any field or orchard beside any other make, and we will be pleased to hear from anyone who will grant the **GRITCO-H** a trial, and will give the same our personal attention.

H. P.	Rows.	Gallons.	Attachment.	List Price.	Our Special Price.
1	4	50	Ground	\$125.00	\$75.00
1	4	50	Orchard	125.00	75.00
1	4	50	Ground and Orchard...	150.00	90.00
2	5	110	Ground	150.00	90.00
2	5	110	Orchard	150.00	90.00
2	5	110	Ground and Orchard...	170.00	100.00

GRITCO-H Potato Sprayer

For quite a number of years we have been HEADQUARTERS for SPRAY PUMPS and INSECTICIDES.

See page 64 for KIL-O-SCALE, LIME SULPHUR SOLUTION, SOLUBLE OIL, SULPHUR, both (FLOUR and FLOWERS), BORDEAUX MIXTURE, BORDEAUX-ARSENATE OF LEAD, ARSENATE OF LEAD, COPPER SULPHATE (OR BLUE STONE), KEROSENE EMULSION, PARIS GREEN, WHALE OIL SOAP, IRON SULPHATE and ATOMIC SULPHUR.

Most of these Insecticides are well known to the Spraying community. We are careful to obtain these goods from the most reliable manufacturing concerns in the country.

Goulds Field Crop Sprayer

Used in Connection With Any Hand or Power Spray Pump.

Figure 1322.—The best and cheapest crop sprayer on the market. Easily attached to tail-board of a wagon, and when not in use can be folded into small space. It is made to spray four or six rows, any distance apart up to 44 inches, or cover a space 14½ or 22 feet in width. Connection allows sprayer to be easily raised or lowered; spray to be thrown forward, backward, up or down.



Figure 1444 (see cut).—Is a modification of Fig. 1322, having five, six or seven drop pipes with double nozzles on each for spraying the under sides of plant leaves.

Figure 1322.

Complete with four "Mistry Jr." Nozzles and coupling for connecting to discharge hose of any barrel or power sprayer. List Price, \$19.00; Our Special Price, \$12.00.

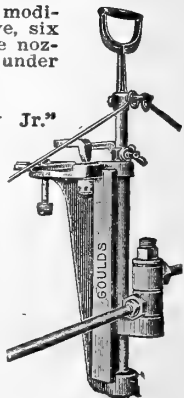
Same with 6 "Seneca," "Mistry" or "Mistry Jr." Nozzles. List Price, \$22.50; Our Special Price, \$13.00.

Figure 1444.

Complete with five double "Mistry Jr." Nozzles and coupling for hose from barrel or power sprayer. List Price, \$31.50; Our Special Price, \$18.00.

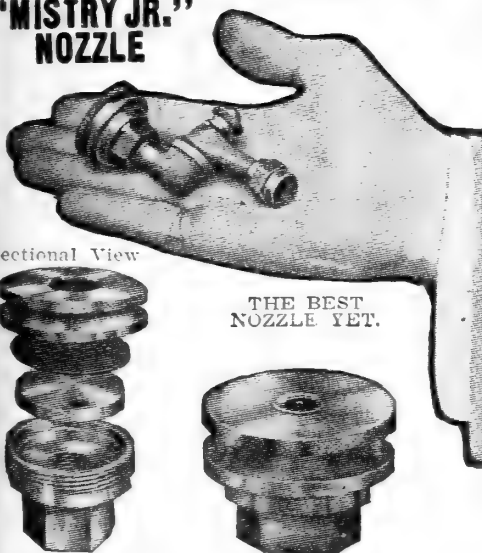
Same with 7 double "Mistry" or "Mistry Jr." Nozzles. List Price, \$35.50; Our Special Price, \$21.00.

The approximate quantity of Spray Solution of any kind for Potatoes is from 30 to 40 gallons to the acre after diluting.



ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

"MISTRY JR." NOZZLE



THE BEST
NOZZLE YET.

Fig. 1501
Does the Work of Two Ordinary Nozzles.
Its construction permits a larger hole in the disk, making it possible to throw a finer and wider spray with less chance for clogging. It is made of brass with hardened tool steel disks in discharge cap, which can be removed and new ones inserted as desired. Tested under all conditions and found to give entire satisfaction, producing a perfect mist and covering a wide area.
Price, 75c. Extra Steel Disks, 5c. Caps for above, each, 30c.

Fig. 1507—SWIVEL ELBOW FOR MISTRY JUNIOR. (See Fig. 1507). Makes the Mistry Junior doubly valuable for spraying for codling moth. Will throw spray downward, making it easy to force the spray in calyx of the apple.
Swivel Elbow only.....75
Price, combined with Mistry Junior.....\$1.50



Original
Deming
Bordeaux
Nozzle

The Bordeaux in the character of the spray is readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle. Price, 75c.

MIST NOZZLE, Fig. 1317

Self-Cleaner or Degorger. Pressing nozzle against limb does the work in an instant. The pressure forces it open ready for use. Capacity equal to 2 ordinary Vermorel nozzles.
Will spray whitewash as well as the lighter tree-spraying solutions. \$1.00.



DEMING VERMOREL
NOZZLE

Fig. 963.
The cap with smaller hole makes finer spray. Price, with extra cap, 75c. each.
Fig. 55—Gould's Vermorel Nozzle, each, 75c.
Two Discharge, \$1.75. Three Discharge, \$2.50.
Caps for above, each, 15c.

Spray Pump Accessories

Fig. 65—To make connection between 1/2 or 3/4-inch hose coupling and spray nozzle, 25c.
Fig. 67—Has male end to wire into 1/2-inch hose, other end cut 1/4-inch male pipe thread, 15c.

Fig. 85—Brass stop cock shank for wiring 1/2-inch hose, other end 1/4-inch male thread, 60c.
Fig. 54—Brass stop cock, cut 1/4-inch female pipe thread both ends, 60c.

(Fig. 504.) **BRASS HOSE COUPLINGS.**
Size, inches, 1/2 3/4 1 1 1/2 2
Price, each, 15c. 15c. 25c. \$1.00 \$2.00
Either half, each, 10c. 10c. 17c. 65c. \$1.30
Fig. 89—Brass Hose Nipple, one end cut male pipe thread, other end male hose thread.

1/2-in. or 3/4-in. hose, 3/4-in. iron pipe.....25c.
1/2-in. or 3/4-in. hose, 1-in. iron pipe.....25c.
1/2-in. or 3/4-in. hose, 1 1/4-in. iron pipe.....50c.
1-in. hose, 1-in. iron pipe.....50c.
1-in. hose, 1 1/4-in. iron pipe.....50c.
1 1/4-in. hose, 1 1/4-in. iron pipe.....50c.

Fig. 49—Brass Y with male pipe thread on inlet.....80
Fig. 49 1/2—Brass Y, female thread on inlet.....80
Fig. 1074—Brass Y for two nozzles.....50
Fig. 1074 1/2—Brass Y for two nozzles.....50
Selden's Packing for Spray Pumps, pound, 2.00

FUNNEL AND STRAINER. (Fig. 1273.)
Tin, with brass 20-mesh wire strainer.....\$1.50
Galvanized, with brass 20-mesh wire strainer.....1.75

BRASS HOSE CLAMPS. (Fig. 1272.)
A screwdriver does the business.
1/2-inch, 5c.; 3/4-inch, 5c.; 1-inch, 10c.; 1 1/4-inch, 15c.; 1 1/2-inch, 20c.; 2-inch, 25c.
Fig. 30 1/2—Pressure Gauge for 200 lbs., diameter 3 1/2 inches, fitted for spray pump, \$2.25.

ROSE WASHERS.

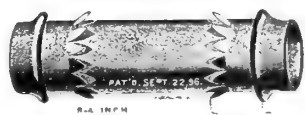
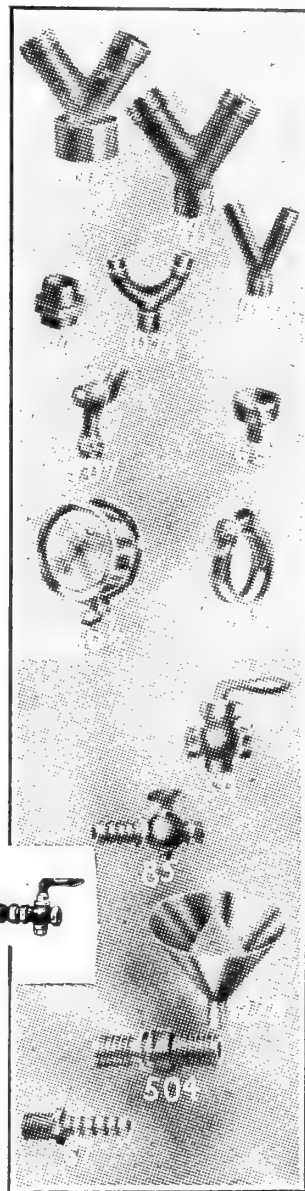
1/4-in. and 3/4-in. Rubber Washers, each, 2c.; doz., 10c.
1/2-in. and 3/4-in. Leather Washers, each, 3c.; doz., 15c.
Fig. 545—Iron Pipe Extension, 8 feet long, complete with cock, \$1.00.
Fig. 546—Iron Pipe Extension, 8 feet long, without cock, 50c.
Fig. 1437—Banboo Rods, 16 feet long, arranged with brass stop cock, \$2.75.

Fig. 1437.



SPRAY PUMP REPAIRS

Cylinder or Bottom Section, Fig. 1100....\$1.90
Air Chamber Cap or Bearer, Fig. 1100....85
Brass Plunger Complete, no Rod, Fig. 1100 4.40
Brass Plunger only, Fig. 1100.....3.85
Plunger Rods only, Fig. 1100.....40
Plunger Rod Crosshead, Fig. 1100.....30
Brass Suction Valve, Fig. 1100.....45
Brass Suction Valve Seat, Fig. 1100.....1.10
Brass Suction Strainer, Fig. 1100.....65
Brass Discharge Valve, Fig. 1100.....45
Brass Discharge Valve Seat, Fig. 1100.....55
Anchor or Steady Rest, complete, Fig. 1100 30
Levers, Fig. 1100.....1.10
Wing Agitator Comp. for Fig. 1100.....2.20
Agitator Iron Wings or Arms, R. and L., Fig. 1100.....40
Cylinder or Bottom Section, Fig. 1188....1.10
Air Chamber Cap or Bearer, Fig. 1188.....80
Brass Plunger Complete, no Rod, Fig. 1188 1.30
Brass Plunger only, Fig. 1188.....1.10
Plunger Rod only, Fig. 1188.....55
Plunger Rod Crosshead, Fig. 1188.....30
Brass Suction Valve, Seat, Fig. 1188.....50
Brass Suction Strainer, Fig. 1188.....50
Brass Discharge Valve, Fig. 1188.....30
Brass Discharge Seat, Fig. 1188.....55
Anchor or Steady Rest, Complete Bolts and Washers, Fig. 1188.....30
Levers, Fig. 1188.....55
Links, Fig. 1188.....20
Barrel Attachments, Fig. 1188.....55
Barrel Attachment Thumb Screw, Fig. 1188 10
Wing Agitator Comp. for Fig. 1188.....1.65
Agitator Iron Arms, R. and L., Fig. 1188, each.....25
Brass Valve Seats, Fig. 1506.....20
Brass Valves, Fig. 1506.....25
Brass Plungers, Fig. 1506.....2.75
Brass Suction Strainer, Fig. 1506.....50
Pitman to change Fig. 1508 to 1509.....1.25



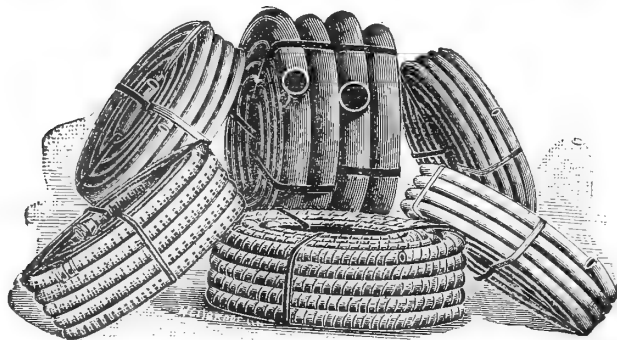
**COOPER HOSE
MENDER**

No clamps necessary. Impossible to pull out of hose. Each, 10c. Dozen, \$1.00.

SEE PAGE 59 FOR IMPORTANT
MATTERS ON SPRAYING
SOLUTION.

ALL PRICES SUBJECT TO
CHANGE WITHOUT
NOTICE.

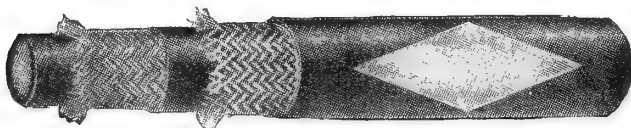
RUBBER HOSE



Per Foot.

ORIOLE.—3-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (75 lbs. pressure).....\$0.12
GRIFFITH & TURNER CO.'S EXTRA.—3-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (80 pounds pressure)......14
GRIFFITH.—6-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (125 pounds pressure)......15
CHEST.—4-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (125 pounds pressure)......16
 $\frac{3}{4}$ Hose comes in 25 and 50-foot lengths, coupled. We cannot cut other lengths. For Hose 25 ft. long, add to price $\frac{1}{4}$ c. per foot.

"GRITCO" WOVEN 3-4 INCH HOSE



Formerly Known as "Gibraltar," but Find That Name is Appropriated by Another Manufacturer.

Owing to advance in raw material we are compelled to advance prices on $\frac{3}{4}$ -inch hose.

The construction of this Hose is entirely different from regular Hose. Over a seamless tube of high-grade rubber is braided one or more plies of tightly twisted cotton yarn.

Between each ply is placed a distinct layer of high-grade rubber.

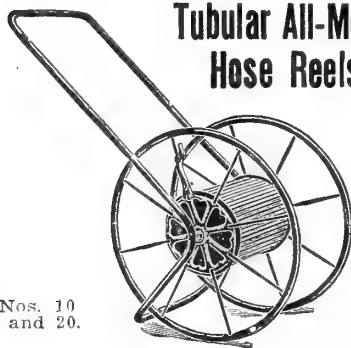
The Hose is protected by a cover made of rubber specially compounded. It is vulcanized in patented molds under very high pressure, which forces the rubber through the cotton fabric, thereby making a homogeneous body.

This Hose is manufactured in continuous lengths up to five hundred feet. $\frac{3}{4}$ -inch, per foot, not coupled, 19c.; coupled, 20c.

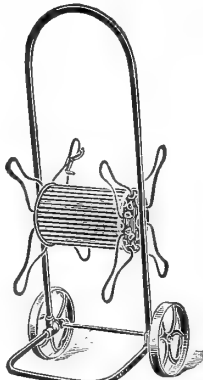
RUBBER HOSE FOR SPRAY PUMPS. Per Foot.
 $\frac{3}{8}$ -inch Tubing.....\$0.10
 $\frac{1}{2}$ -inch Oriole......10 $\frac{1}{2}$
 $\frac{1}{2}$ -inch Spray, No. 1......15
 $\frac{1}{2}$ -inch Spray, No. 2, wire-bound......20
1-inch 3-ply Hose......20
1-inch Hard Rubber Suction Hose......25
2-inch Wire-Lined Suction......45

$\frac{1}{2}$ -inch Hose comes in 10, 15, 25 and 30-foot lengths. We cannot cut other lengths. 2-inch Hose comes in 5, 10 and 20-foot lengths.

Tubular All-Metal Hose Reels



Nos. 10 and 20.



No. 10—Wheels, 21 in.; weight, 18 lbs.; capacity, 100 ft. $\frac{3}{4}$ -in. hose.

No. 20—Wheels, 24 in.; weight, 20 lbs.; capacity, 150 ft. $\frac{3}{4}$ -in. hose.

Price, No. 10, \$3.50. No. 20, \$4.00.

K. C. No. 1.

All metal; tubular frame; wire arms; wheels, 7 inches in diameter; capacity, 100 ft. $\frac{3}{4}$ -in. hose; weight, 12 $\frac{1}{2}$ pounds. Price, \$2.00.

"FOUNTAIN SPRINKLER"

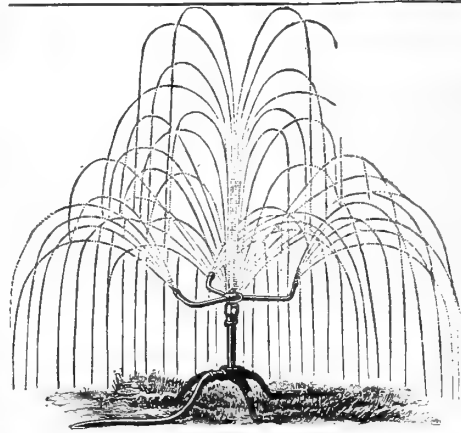
MADE OF HEAVY BRASS. Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, 60c.



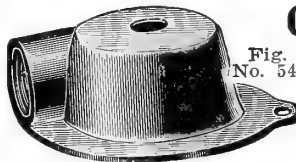
Lawn Sprinklers

These sprinklers are compactly and strongly made with phosphor-bronze bearing, and will cover a surface 48 feet in diameter.

Pluvius, 11-in. high, \$1.50.
 Crescent Lawn, 24-in. high, \$2.50.
 Crescent Lawn, 36-in. high, \$3.00.



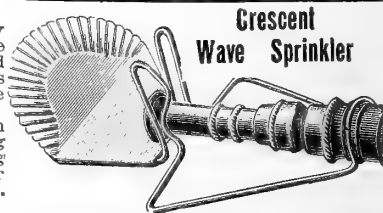
C. B. G. SPRINKLER



This is the cheapest and most effective sprinkler made. The distribution of water is perfect. Price, 25c.

It is attachable to any nozzle. Supports nozzle in position when placed on ground. Distributes water in a shower-like manner.

Permits full flow from nozzle, thus lessening liability of bursting hose. Durable and never out of order. Price, 25c.

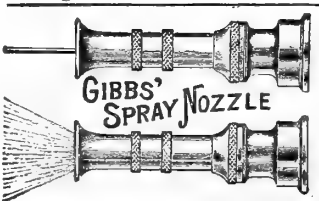


Crescent Wave Sprinkler

All-Wood Hose Reels

Virginia.....\$1.00
 The Gem.....2.00

The Gem is one of the best all-wood reels on the market. Handy, strong and durable.

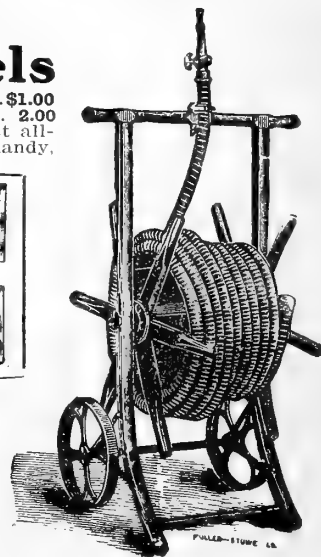


$\frac{3}{4}$ -in., Gibbs', brass nozzle, 35c.

1-in., Gibbs', brass nozzle, 85c.

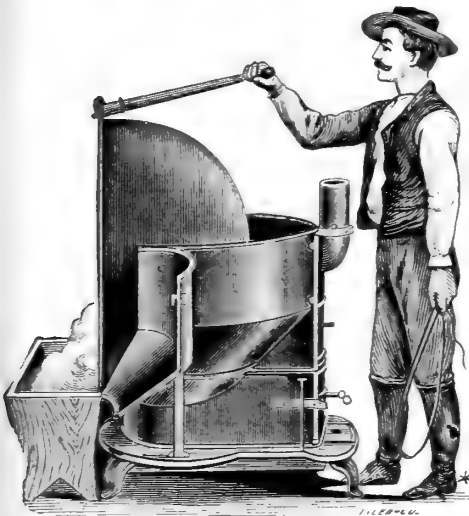
$\frac{3}{4}$ x6-in., Brass Hose Pipe with screw tip, 30c.

1x8 $\frac{1}{2}$ -in., Brass Hose Pipe with screw tip, 50c.





The Profit Farm Boiler



Showing Dumping Process.

No apparatus has ever been made that is at once so practical and perfect a feed cooker for stock, and as useful for other purposes about the farm and stables; also for cooking lime and sulphur for spraying. The most ignorant farm hand can operate it perfectly without risk to life or property.

It is a simple furnace, with a caldron which dumps, as shown by the cut. The contents can be emptied in one minute, doing away with the slow and disagreeable task of dipping it out. It is thoroughly constructed of the best cast iron. The kettle is cast very smooth and has an extra thick bottom.

PRICE LIST.

No. 25—25 gallons, for coal.....	\$23.00
No. 25—25 gallons, for wood.....	23.00
No. 48—48 gallons, for coal.....	34.00
No. 48—48 gallons, for wood.....	34.00
No. 53—53 gallons, for coal.....	38.00
No. 53—53 gallons, for wood.....	38.00
No. 75—75 gallons, for coal.....	46.00
No. 75—75 gallons, for wood.....	46.00
Coal Fixtures for any size of Wood Boilers	4.00

No Wood Fixtures for Coal Boilers.

Do not carry them in stock, but ship direct from factory.

G. & T. BOILER AND FEED COOKER

Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.

Actual Capacity	Diameter of Furnace	Shipping Weight	List Price Furnace with Kettle	Ret'l Price Furnace with Kettle	List Price Kettle only	Retail Price Kettle only
30 gallons.	26 inches.	150 pounds.	\$13.00	\$10.40	\$7.00	\$4.90
33 gallons.	28½ inches.	175 pounds.	14.00	11.20	8.00	5.60
48 gallons.	31½ inches.	200 pounds.	16.50	13.20	12.00	8.40
53 gallons.	32 inches.	225 pounds.	18.00	14.40	13.00	9.10
75 gallons.	36 inches.	275 pounds.	24.00	19.20	18.00	12.60

Furnace with Fire Pot for Coal, add—List Price, \$5.00. Retail Price, \$4.00. You will notice that our kettles are rated at exact capacity.



Baltimore Electric Feed Cooker

Furnace door frame, hearth and grates are of best cast iron; lining and sides of sheet steel plates; boiler is made of galvanized steel; will not rust; can also be used for scalding hogs. No. 1, 25 gals., \$9.00. No. 2, 40 gals., \$11.00. No. 3, 50 gals., \$13.00.

Separator Boiler and Steam Feed Cooker

SIZES AND PRICES

No. 1—19-in. shell; height over all, 54 in.; 9 flues; 360 lbs. \$35.00.
No. 2—19-in. shell; height over all, 58 in.; 13 flues; 430 lbs. \$40.00.

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 feet steam pipe, with valve to convey steam to barrel or vat.

Steam Gauge, extra. \$2.50.

Water Glass, extra. \$2.00.

Special Price for Cash.



Fig. 840.

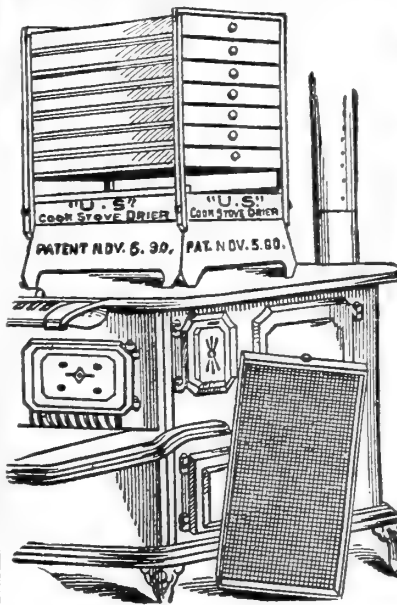
Steel boiler with lap-welded flues, well riveted and calked, capable of standing 150 lbs. hydraulic pressure, and carrying steam pressure of 100 lbs. to the square inch. Fire-box provided with grates adapted to burning all kinds of fuel; will cook or steam feed placed in a barrel or vat, with but little care and without danger of burning.

Steel Hog Scalding and Feed Cooker



Plain Scalding does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 lbs.

	List Price	Our Special Price
Plain Scalding, with legs, 6 ft. x 30 in. x 18 in. deep.....	\$16.00	\$14.00
Fire Box with 5 in. pipe hole.	13.00	11.75
Dumping Rack with lever...	13.00	11.75



A Scientific Chemical Compound for Exterminating the San Jose Scale

Notwithstanding the fact that there are many other Scale remedies on the market, **KIL-O-SCALE** is holding its own and is still the favorite among many fruit-growers. The dealers like to handle it because it sells rapidly, and the Orchardist likes to use it because it is easily applied and very effective. It was the first commercial remedy on the market for the destruction of San Jose Scale. The best and most reliable oil remedy. Specially valuable for spraying apple and pear for San Jose Scale. Perfectly soluble in water in any proportion. KIL-O-SCALE is not simply an oil remedy; it contains other chemical preparations, each in itself being an insecticide of more or less efficiency.

KIL-O-SCALE is a concentrated LIQUID and is shipped in barrels, kegs or cans. To one gallon of **KIL-O-SCALE** add 18 gallons of cold water and stir. It is then ready to be applied to the trees while in the dormant stage. **KIL-O-SCALE** will congeal in Cold Weather, it should be kept in a temperature not colder than 40 degrees Fahrenheit. Be Sure to Stir Well Before Mixing With Water.

Pint Cans, each.....\$.30 Quart Cans, per quart......50 Half-Gallon Cans......75 One-Gallon Cans, wt. 10 lbs.....1.25	Two-Gallon Cans, wt. 20 lbs.....\$2.25 Five-Gallon Cans, wt. 40 lbs.....5.00 Ten-Gallon Cans, wt. 80 lbs.....9.50 Half-Barrels (25 gals.), wt. 225 lbs. 22.50
---	--

BARRELS, PER GALLON, 85c. Wt. 450 lbs.



LIME SULPHUR SOLUTION

This material combines the great fungicidal properties of Sulphur with the scale-remedy, and is specially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should protect the hands.

Prices:	
1-pt. Cans.....25c. 1-qt. Cans.....40c. 1/2-gal. Cans.....50c. 1-gal. Cans.....75c.	5-gal. Cans.....\$2.25 10-gal. Cans.....3.75 1/2 bbl., per gal......25 1 bbl., per gal......20

Special Price in Larger Quantities.

Add 9 to 10 parts cold water to one part of LIME SULPHUR SOLUTION and stir thoroughly. Apply with spray pump.

FLOWERS OF SULPHUR

Pound, 10c. Five pounds, 8c. lb. Ten pounds, 6 1/2c. lb.	
N. B.—If by mail, add 15c. per pound for postage.	
25 pounds.....\$.06 lb. 50 pounds......05 1/2 lb.	100 pounds.....\$.04 1/2 lb. Bbls., 155 lbs. (net) .03 lb.

Prices subject to change without notice.

FLOUR OF SULPHUR

Pound ....\$ .10 lb. 5 lbs......08 lb.	10 lbs.....\$.06 lb. 25 lbs......05 lb. Barrels (250 lbs.).....\$.02 3/4 lb.
---	--

Prices subject to change without notice.

SOLUBLE OIL, 95 Per Cent. For Use in Dormant Period

This is one of the greatest remedies for Scale Insects. Add 15 parts of water to one part **Soluble Oil**; stir thoroughly and apply with Spray Pump.

1-Gal. Cans.....\$1.00 each. 5-Gal. Cans.....3.65 each.	10-Gal. Cans.....\$6.65 each. Half-Barrels.....60c. per gal. Barrels.....50c. per gal.
--	--

ATOMIC SULPHUR

**A New Fungicide That Has Produced Wonderful Results.
Does Not Burn or Shot-Hole the Foliage.
Does Not Injure or Russet the Fruit.**

Peach scab has long been a source of great loss to growers. Bordeaux Mixture or any preparation containing copper is always attended with injury to peach foliage and fruit, therefore cannot safely be used. Lime-Sulphur Solution has been tried and has afforded some relief—still there has been considerable burning.

Arsenate of Lead is combined with ATOMIC SULPHUR, as there are always chewing insects present.

Direction as to Times of Spraying:

First—As soon as petals fall. Second—Three or four weeks after petals fall. Third—Nine or ten weeks after petals fall. Add 40 gallons water to 1 of Atomic Sulphur. This solution is also best for Potatoes, as blight is checked and bugs are destroyed in one operation. **Prices on Application.**

FORMALDEHYDE. 40% SOLUTION (POISON)

To prevent blight on potatoes; also for the bacterial disease known as "Blackleg," destroying tissues of potato plant. Disinfect seed tubers with 40 per cent. Formaldehyde Solution before cutting as prevention.

Prices:	
1/4-Pint Bottles.....\$.65 1/2-Pint Bottles......55 1-Gallon Bottles.....\$2.75	1-Pint Bottles.....\$.45 5-Pint Bottles.....1.70

One pint of Formaldehyde to 30 gallons of water. Soak the potatoes in this solution for two hours and spread out to dry.

BORDEAUX MIXTURE

The most approved form is paste and more effective, and you are not paying for water. Recommended for rust and scab and all kinds of rot. Should be used on Potatoes, Grape Vines and all fruit trees. Apply for Pears and Apples 10 to 12 lbs. to 50 gals. water; for Peach and Plum, 6 to 8 lbs. to 50 gals. water, and stir.

Prices:	
1-lb. Packages, each....\$.12 2-lb. Packages, each.... .22 5-lb. Packages, each.... .50 10-lb. Packages, each.... .90	20-lb. Kits, each.....\$1.65 50-lb. Kits, each.....3.50 100-lb. Kegs, each.....6.50 Barrels, 400 to 600 lbs., 6c. lb.

BORDEAUX-ARSENATE-LEAD MIXTURE

This is a combined fungicide and insecticide specially recommended for Apple and Pear trees; also for Potatoes, Melons and Cucumber vines. Apply for Apple and Pear, 8 to 12 lbs. to 50 gals. water; Peach or Plum, 6 to 8 lbs. to 50 gals. water, and stir.

Prices:	
1-lb. Packages, each....\$.18 2-lb. Packages, each.... .30 5-lb. Packages, each.... .70 10-lb. Kegs, each.....1.30	20-lb. Kegs, each.....\$2.50 50-lb. Kegs, each.....5.75 100-lb. Kegs, each.....10.50 Barrels, 400 to 600 lbs., 10c. lb.

ARSENATE LEAD (Poison)

To control Codling Moth, Curculio and all leaf-eating insects. It sticks to the plants and is absolutely free from any danger of burning. Better than Paris Green. Use from 1 to 2 lbs. to 50 gallons water.

1-lb. Packages, each....\$.30 2-lb. Packages, each.... .50 5-lb. Packages, each.... 1.25 10-lb. Packages, each.... 2.35	25-lb. Buckets, each....\$3.95 50-lb. Buckets, each....6.50 100-lb. Kegs, each.....11.00 Barrels, abt. 400 lbs., 9 1/2c. lb.
---	---

COPPER SULPHATE OR BLUESTONE

Prices on this article are constantly varying. Write for prices.

KEROSENE EMULSION (Liquid)

Ready for use by simply adding 12 to 15 parts water to one of mixture. This is strictly an insecticide for all suckling insects. Qt., 40c. Gal., \$1.00. 5 gals., \$4.00.

PARIS GREEN

Quarter pound.....10c. Half pound.....15c.	Pound .....30c. By mail.....45c.
---	-------------------------------------

GOOD'S WHALE OIL SOAP

Apply for green-fly or aphid, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

Price, 1/2 lb., 10c.; 1 lb., 15c.; 2 lbs., 25c. 5-lb. package, 60c.

IRON SULPHATE (Copperas)

For Destroying Dandelion, Plantain, Kinghead (Ambrosia-trifida), Wild Mustard, Etc.

Use at the rate of 1 1/2 to 2 lbs. to one gallon of water. Do not let solution stand more than 3 or 4 hours after mixing. Strain through a fine sieve of 20 to 30 mesh brass wire. Apply with Spray Pump that has brass working parts.

Prices: 1 lb., 10c.; 5 lbs., 8c. per lb.; 10 lbs., 7c. per lb.; 25 lbs., 6c. per lb.; 50 lbs., 5c. per lb.; 100 lbs., 4c. per lb.

Special Prices in Larger Quantities.



SAVE YOUR COWS

BY USING

KOW-KURE

THE GREAT COW MEDICINE

the milk. It is a medicine for cows only. Prices, 50c. and \$1.00.

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases

PRATT'S REMEDIES

PRATT'S Poultry Regulator, 8 oz., 10c.; 26 oz., 25c.; 5 lbs., 60c.; 12-lb. bag, \$1.25; 25-lb. bag, \$2.50.

PRATT'S Animal Regulator, per pkg., 25c.

PRATT'S Conditioner for Horses and Cattle, 7-lb. package, 50c.; 12-lb. bag, 75c.; 25-lb. bag, \$1.50; 100-lb. bag, \$5.00.

PRATT'S Roup Cure, per package, 25c.

PRATT'S Powdered Lice Killer, small package, 10c.; large package, 25c.

PRATT'S Liquid Lice Killer, 1 quart, 35c.

PRATT'S Head Lice Ointment for Poultry, per tin, 25c.

PRATT'S Worm Powder, per package, 50c.

PRATT'S Heave, Cough and Cold Cure, per package, 50c.

PRATT'S Colic Cure, 25c. and 50c. sizes.

PRATT'S Veterinary Liniment, 25c. and 50c. sizes.

PRATT'S Peerless Hoof Ointment, 25c. size.

PRATT'S Germathol, 25c. size.

CONKEY'S ROUP CURE

The Original Standard Remedy for Roup, Colds and Canker in domestic fowls and pigeons. It is also an excellent preventive. Directions on each package. Prices, 25c., 50c., \$1.00.

CONKEY'S CHOLERA REMEDY

Given in Drinking Water.

A reliable Remedy for Indigestion, Sour Crop, Diarrhea, Dysentery, Bowel Trouble, and all Ailments of the Digestive Organs, commonly called Cholera. Price, 50c.

CONKEY'S LAYING TONIC

It promotes the Egg Production in a natural manner. Unequalled for Moulting Fowls. Full directions go with each package. Price, per package 25c.

LEE'S LICE KILLER Is easily applied to roost poles and about the poultry-house, and kills all vermin, mites, bedbugs, etc., that have their lodging in the cracks and crevices. Price: Quart, 35c. ½ Gal., 60c. Gal., \$1.00. 5 Gals., \$4.00.

LEE'S INSECT POWDER Is intended especially for use on sitting hens and little chicks. Is also of great value for insects on plants and vegetables, and for general use about household. Price, 20-ounce package, 25c.

LEE'S EGG MAKER 2½-lb. package... 25c. 25-lb. pail... \$2.00

LEE'S GERMOZONE (IN TABLETS OR LIQUID.)

For roup, cholera and other poultry diseases; also skin, scalp and mucous surfaces. Specific for eruptions, inflammations, discharges, sores, wounds, etc. **GERMOZONE IS A GREAT REMEDY.** Directions with every package. Price, per pkg., 50c.

LAMBERT'S DEATH TO LICE

A DISINFECTANT INSECT POWDER. This powder is unrivaled as an insecticide; handy to use, cheap to buy, and does the work quickly.

15-oz. package...\$0.25 Postpaid...\$0.40
48-oz. package... .50 Postpaid... 1.00
100 oz. package... 1.00 By express.



FOR CHICKENS.—This Roup Cure, one of best known remedies to cure Roup, Canker and Diptheretic Roup where it is used according to directions on every package, except in cases where the fowl is in the last and incurable stages of the disease.

Kur-Roup is put up especially for us from a scientific remedy, in which is combined a strong tonic and blood purifier, building up the system, dispersing the disease.

25c. Per Package, Postpaid.

G & T

LICE POWDER

Fatal to all lice, fleas and other insect vermin. Perfectly harmless to fowls, animals and vegetable life. Invaluable for use on sitting hens. 15 oz., 25c.; 48 oz., 50c.; 100 oz., \$1.00.

G & T

LIQUID LICE KILLER

Standard remedy for destroying all species of lice, insects and mites affecting poultry and stock. Quart, 35c.; 2 Quarts, 60c.; 1 Gallon, \$1.00.

G & T

CHOLERA REMEDY

For treatment of indigestion, bowel trouble, diarrhea, constipation and troubles of like character in old and young fowls there is no better remedy. Should always be kept on hand. If fowl is afflicted with loss of appetite and great thirst, it has cholera. Directions with every package. Price, 50c.

Persian Insect Powder or Buhach

Price: ¼ pound, 15c. Pound, 40c., or by mail, 55c.

DRY—Blow on with a bellows or gun.

SOLUTION—Dissolve one ounce to three gallons of water, and apply with syringe or pump

Primo Regulating and Renovating Powder for Horses

Healing and strengthening the throat, lungs, stomach and intestines, creating an appetite. Price, 2 lbs., 50c.; 5 lbs., \$1.00.

Primo Bovotone Cattle Tonic Powder

Each ingredient of this tonic has been blended to give nourishment and strength, tissue and nutrient perfection to the body, so that all portions of the animal will act in harmony. Contains no minerals or poisons; is a germicide, and keeps cows free from parasites. Price, 2-lb. can, 50c.; 5-lb. can, \$1.00.

Primo Universal Pain Killer and Healer for All Kinds of Stck

Contains no minerals or poisons. The magnetic healing effects of this preparation are greatly increased by heating. Heat it and bathe the parts affected. Price, pints, 25c.; qts., 50c.

Primo Liquid Remedy and Tonic for Fowls

For Gapes, Roup and other internal afflictions. Keep coop clean and disinfect it. Price, pints, 25c.; quarts, 50c.

Primo Poultry Condition Powder and Tonic

An absolutely vegetable compound; will cause fowls to thrive and will keep them warm in fall and winter seasons. Very high in protein. Price, 2 lbs., 50c.; 5 lbs., \$1.00.

Dr. Lesure's Veterinary Stable Case

Contains a full assortment of the different Medicines and all necessary tools to administer them.

BOOK GIVING SYMPTOMS OF ALL DISEASES.

Price, Complete, \$6.00.

Dr. Lesure's Veterinary Medicines

Colic Cure, \$1.00. Fever Drops, 50c., \$1.00. Cough and Tonic Drops, 50c., \$1.00. Horse Renovator, 50c., \$1.00; Worm Annihilator, 50c. Electric Hoof Ointment, 50c. Total Eclipse Spavin Cure, 50c. All-Healing Balm, 50c. Gall Cure, 25c., 50c. Lesure's Liniment, 50c.

Nice cabinet furnished with an assorted order of \$20.00.

Dr. Daniels' Veterinary Remedies

Colic Cure, \$1.00. Cough, Cold and Fever Drops, 50c. Horse Renovator, 50c. Wonder Worker Oster-Cocus (Nerve and Muscle Liniment), 50c. Hoof Grower and Softener, 50c. Gall Cure, 25c.

HIGH GRADE CHICK FEEDS

**"THE FEED THAT IS ALL FEED."
ALL GRAIN AND NO GRIT.**

This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or cobs, etc. It will not hurt or scour chicks.

1 lb.,	5c.	10 lbs.,	30c.	100-lb. sacks,	\$2.60.
--------	-----	----------	------	----------------	---------

CHICK MANNA, or Health Food

(For Little Chicks.)

This preparation is especially prepared for little chicks when first hatched. This should be the first and only food, and continue for 10 or 12 days before feeding anything else. Directions for feeding on each package. 1 lb. package, **10c.**; by mail, **25c.** 5-lb. package, **40c.** 15-lb. package, **\$1.10.** 60-lb. box, bulk, **\$4.20.**

WILL MAKE TENS LAY 14

WILL MAKE CHICKS GROW.

ODORLESS FREE

SOMETHING TO CROW ABOUT

HEN-E-TA BONE-GRITS

NO OTHER BONE NEEDED
NO OTHER GRIT NEEDED

NO MORE BONE CUTTERS NEEDED

100 LB. BAG \$2.25 | 50 LB. BAG \$1.50

30% PURE BONE ASH



VALUABLE BOOKLET

HEN-E-TA BONE CO.

NEWARK, N.J. DEPT.
FLEMINGTON, N.J.A.

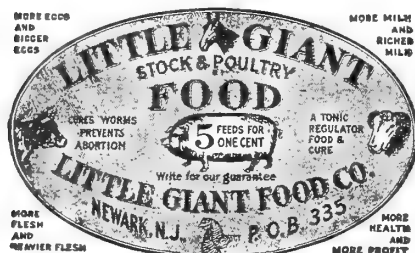
"Hen-e-ta," therefore, contains **sixty** times as much Bone Ash as oyster shells, and is a far superior grit besides.

"Hen-e-ta" is entirely digestible; while oyster shells are almost entirely indigestible. Oyster shells are discarded after their sharp edges are worn smooth; "Hen-e-ta" is never discarded; it is dissolved.

IMPORTANT!—Directions for Feeding “Hen-e-ta.”—Add 1 quart “Hen-e-ta” (composed of 1 pint Superfine + 1 pint No. 1) to every 8 quarts mash (wet or dry) and mix thoroughly; feed in hopper.

Every 100 hens will need 100 lbs. "Hen-e-ta" per month, and should have it the year round; or 1 lb. "Hen-e-ta" per average fowl per month. The cost of this amounts to nothing, when compared with the results obtainable and the saving of other materials. **All sizes are same price.**

Prices: 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.25. Special price in ton lots.



rice root, imported German fennel seed.

Guaranteed Analysis.—Protein, 22 to 28 per cent.; fat, 9 to 12 per cent.; phosphorus, 4 to 5 per cent.; calcic phosphate, 22 to 24 per cent.

DIRECTIONS FOR USING.

For cattle feed one (1) large spoonful "Little Giant" with each meal for each cow, steer, calf, sheep, swine, etc. Mix thoroughly with chopped feed, oats, corn, etc., dry or dampened.

For Poultry.—Mix one (1) large spoonful with each quart of meal; or sprinkle "Little Giant" Food on dampened corn, etc., and feed these in usual way.

For Horses and Mules.—Start in with one small teaspoonful thoroughly mixed with the other feed. After a week increase to a large spoonful and more if necessary.

Prices: 5-lb. pail, \$1.00; 10-lb. pail, \$1.50; 25-lb. pail, \$3.00.
Special price in larger quantities.

FATTENING FEED

This feed puts the finishing touches on chickens before sending them to market. It does it in the shortest possible time. Special study is given to grinding this feed into the proper form to give the best results. So confident are we of the value of this feed for fattening purposes that we urge a trial. Convince yourself. 5 lbs., **20c.** 10 lbs., **30c.** 100-lb. sacks, **\$2.50.**

HIGH GRADE HEN FEEDS

THE BALANCED RATION FOR LAYING HENS

ALL GRAIN AND NO GRIT.

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. **This is the feed for the poultryman who feeds for profit.** 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.50.

MASH FEED TO MAKE HENS LAY

This is a complete mash containing ground grain, alfalfa meal, meat meal, and everything necessary for producing a large egg yield. **Mix with hot water and it is ready to feed.**

5 lbs., **25c.** 25 lbs., **\$1.00.** 100-lb. sacks, **\$2.50.**

PURITY PIGEON FEED

The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. No grit. No shell. 10lb., 5c. 10 lbs., 30c. Per 100-lb. sack, \$2.75.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. Its value as a helpful egg food is unquestioned. 5 lbs., **25c.** 50 lbs., **\$1.25** Per 100-lb. sack, **\$2.00.**

MICA QUARTZ GRIT

(Poultry, Pigeon and Chick Sizes.)

Grit is as essential for poultry as food, as without it they cannot digest the food. Few localities furnish enough sharp grit to satisfy them, and if they have been reared on the land for several years all the suitable grit has been consumed. Poultry will starve to death with full crop for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part of grit to fifteen or twenty parts of food. 5 lbs., **15c.** 100-lb. sacks, **75c.**

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are applied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs, and largely increasing their laying qualities. Especially valuable for growing chicks, and for young hens. Two sizes, No. 1 for grown fowls, and No. 2 for young chicks. 5 lbs., **25c.** 10 lbs., **40c.** 50 lbs., **\$1.50.** 100-lb. sack, **\$2.50.**

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described above, only it is ground much finer. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.50. 100-lb. sack, \$2.50.

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs.

We carry two sizes in stock, No. 2 for grown fowls, and No. 3 for young chicks. 5 lbs., **10c.** 100 lbs., **60c.** 500 lbs., **\$2.75.** Special prices in larger quantities.

DARLING'S PURE BEEF SCRAP

This Beef Scrap is specially prepared from pure beef trimmings and is always uniform. Good meat is very important in a poultry yard if the best results are to be obtained. 5 lbs., **25c.** 10 lbs., **40c.** 50 lbs., **\$1.75.** 100-lb. sack, **\$3.25.** See page 72 for Beef Scrap Hopper.

MEAT MEAL

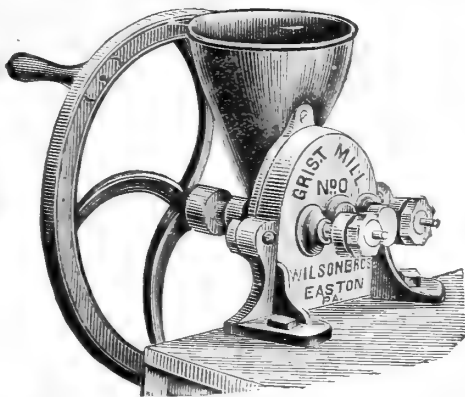
This is a true egg-producing, flesh and bone-forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Will promote health, growth and vigor. It is the same grade as our Beef Scrap, noted above, only ground finer, and is more suitable for small chicks and mixing with mash food. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25.

GRANULATED CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., **30c.** 10 lbs., **50c.** 25 lbs., **\$1.00.** 50-lb. sack, **\$1.25.** 100 lbs., **\$2.00.**

WILSON No. 0 Family Grist Mill

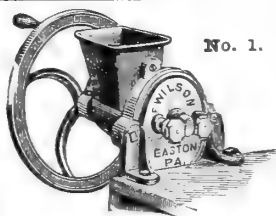
To Bolt to
Bench or
Table.



This mill is especially made for grinding Graham Flour or Cornmeal for table use. It can also be adjusted for cracking the grain if desired. Weight, 30 lbs.
Our Special Price, \$4.00. With Iron Stand, Our Special Price, \$6.00. Weight, 65 lbs.; diameter of hand wheel, 20-in.

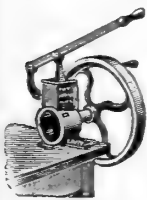
Wilson's Bone and Shell Mill

No. 1—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn.
Weight, without stand, 33 lbs. \$4.00
Weight, with stand, 64 lbs. 6.00



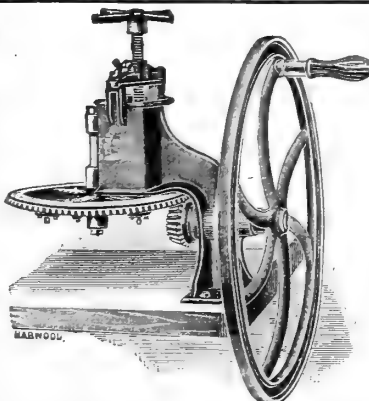
Wilson's Crown Green Bone Mill

This machine is especially made for cutting green bone with meat on, right from the butcher, or offals of bone and meat from the table. Turns easy, fine and fast.
With stand, 80 pounds.....\$8.50
Without stand, 59 pounds.....6.50



The Dandy Green Bone Cutter

One of the simplest and best cutters made. Knives are made from the best tool steel; finely tempered. Has one plain and two corrugated knives. Can be changed to cut fine or coarse.



THE No. 0 DANDY.
Suitable for a Flock of 60 to 75 Chickens.
No. 0, with long handle, weight 35 lbs., \$5.00.
No. 0, with balance wheel, weight 65 lbs., \$7.00.

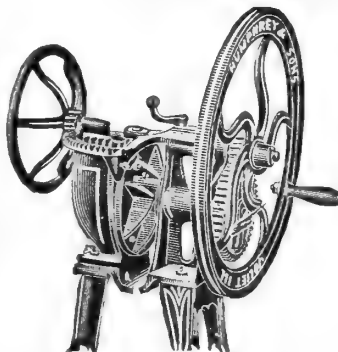
No. 0, with heavy balance wheel and stand, with three hardened steel knives. Capacity, from 150 to 200 chicks; weight about 100 lbs.; hand or power, \$10.00.
No. 3, for hand or power. Capacity by hand power, per hour, 25 to 30 pounds. By power, capacity for 1000 to 1500 chickens..... 18.00

GEARED DANDY CUTTERS.

The geared machines will cut faster, and having four knives will cut just as fine as the others.

No. 9—Weight, 100 lbs. Capacity, 100 to 150 fowls....\$12.00
No. 11—Weight, 130 lbs. Capacity, 200 to 250 fowls.... 15.00
No. 12—With split nut. Weight, 130 lbs. Capacity, 200 to 250 fowls..... 17.00
No. 13—With balance wheel for hand..... 20.00
No. 13—With balance wheel and pulley for hand or power 22.00
No. 13—With tight and loose pulley for power..... 25.00
Weight of No. 13 machines, 180 lbs. Capacity by hand, 250 fowls; by power, 1000 fowls.
Pulley for Nos. 11, 12 and 13, extra..... 1.50
Large Balance Wheel, Nos. 11, 12 and 13..... 3.00

HUMPHREY GREEN BONE AND VEGETABLE CUTTER



The knives of the Humphrey Cutter act upon the shear principle, producing granulated cutting, without question the best form in which to feed green bone.

Capacity.—The capacity of a bone cutter depends upon the strength and energy of the operator and the nature of the material to be cut. The No. 1 Humphrey is suitable for cutting all the animal food for flocks up to 300 fowls. No. 2 does not appear much larger than No. 1, but is made from a heavier set of patterns and is supplied with a pulley wheel to run by power. No. 2 1/2 is the same machine as No. 2, with the addition of a hand wheel, making it both a hand and power machine.

No. 1—Hand Power.....\$12.00
No. 2—Semi-Power..... 13.50
No. 2 1/2—Hand and Power.....\$15.00
No. 6—Direct Power..... 22.00

MANN'S GREEN BONE CUTTER

1902 MODEL.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

No. 5C.—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight, 35 lbs. \$6.00.

No. 5B.—This machine is exactly the same as the No. 5BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. \$8.00.

No. 5BM.—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. \$10.40.

No. 7.—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight, 107 lbs. Cylinder 7 1/4 in. in diameter, 5 1/4 in. deep. Capacity, 1/2 to 1 lb. per minute. \$12.00.

No. 11.—Intended for large flocks of over 100 fowls. Capacity 100 lbs. per hour. Horse-power required, 1 to 1 1/2. Weight, 215 lbs. Diameter of pulley, 15 inches; 3 1/2-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.

"NEW MODEL" CLOVER CUTTER

FOR POULTRY.

Designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into 1/2-inch lengths. These growths are the cheapest and most productive egg-forming poultry foods for cold weather. Made only of iron and steel; strong feeder; large capacity. Length over all, 28 1/2 inches.

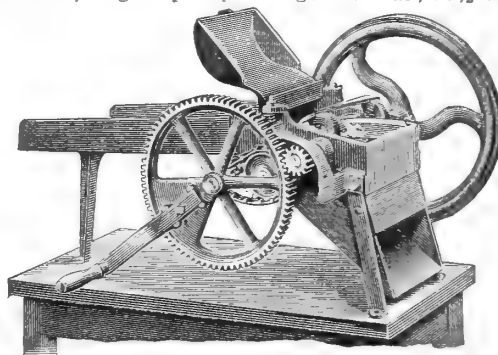
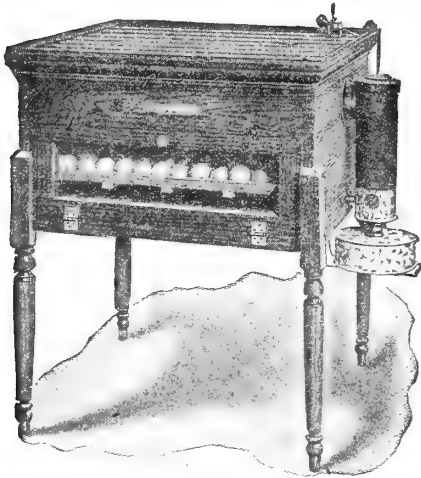


Fig. 770.

Removable Steel Knives, Adjustable Cutter Bar, Runs Easy, Cuts Fine, Is Durable.

With four 7-in. knives; weight K. D. 60 lbs.....\$8.50
Extended shaft, and pulley for power, extra..... 2.00

PRAIRIE STATE INCUBATORS FOR 1911



Junior No. 2.

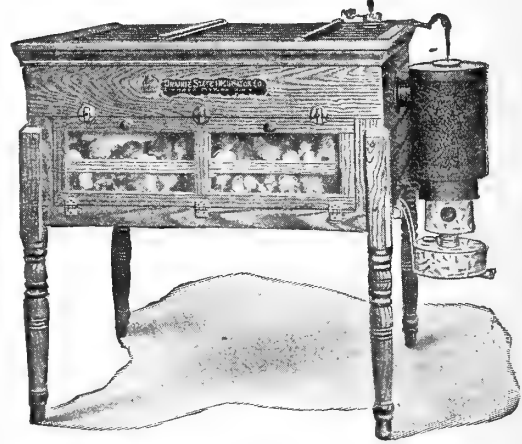
JUNIOR INCUBATOR.

No. 2—115 hen eggs capacity. 95 lbs. crated. \$15.00.

Did you ever notice the hen that steals her nest on the ground? That's natural incubation. And she usually hatches every egg, don't she? We've copied her. We use a wet sand tray, covering the entire bottom of the machine in close proximity

To get a high per cent. of "livable" chicks is where the value comes in the Prairie State. Some incubators may bring out nearly as many chicks, but wait ten days or two weeks and then count your chicks. That's the test. It's the number of chicks that live that tells the story of efficiency, owing to the fact that it hatches as near like the old hen as human ingenuity can copy nature. Every chick hatched in a Prairie State Sand Tray Incubator is bubbling over with vitality the minute it pops out of the shell, and you can rest assured it will thrive and grow rapidly.

All Prairie State Incubators are of the hot-air type, insuring long life and durability; no tanks to rust out or spring a leak in the middle of the hatch. The outside case, etc., is nicely finished in natural wood, unstained. The space between the inner and outer case is insulated with 2 1/4 inches of cotton batting, 3 inches on top. The heating system is a combination of radiant heat on the top of machine with the diffusive system of ventilation. In this respect our machine differs from all others upon the market. No diffusion screens, with their faulty distribution, are used.



No. 2 Incubator.

PRAIRIE STATE INCUBATORS.

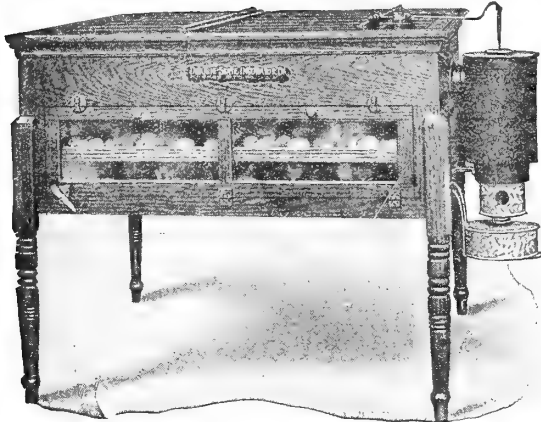
Price.

No. 0—100 hen eggs; 135 lbs. crated..... \$18.00
 No. 1—150 hen eggs; 160 lbs. crated..... 22.50
 No. 2—240 hen eggs; 240 lbs. crated..... 32.00
 No. 3—390 hen eggs; 275 lbs. crated..... 38.00

mity to the eggs, thus furnishing the proper amount of moisture and reducing the evaporation from the eggs to the same per cent. (9 to 11 per cent.) as under a hen. This insures chicks full of vitality—chicks that live—just like hen-hatched.

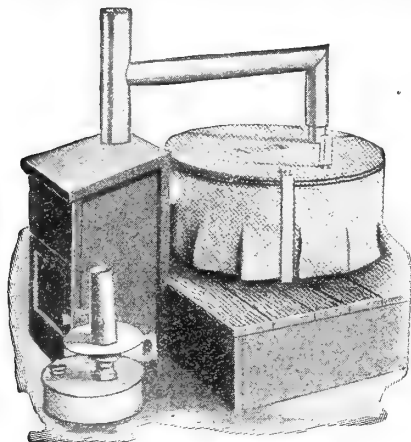
Prices include all attachments, such as egg tester, thermometer, lamp, tray for eggs and regulator. Guaranteed to be free from mechanical defect and to hatch in the most approved manner.

Complete Prairie State Catalogue Free on Request.



No. 3 Incubator.

Prairie State Universal Hover



Universal Hover.

PRAIRIE STATE TESTED THERMOMETERS

No. 1—Hang-up Thermometer, with wire hanger, each, 60c.; price, postpaid, 70c.

No. 2—Universal; may be used as a hang-up, reclining, stand-up or inclining with proper holder. Without holder, each, 50c.; postpaid, 60c.

No. 3—Reclining or lay-down pattern, each 65c.; postpaid, 75c.

No. 4—Stand-up, with holder, each, 60c.; postpaid, 65c.

No. 5—Incline, with holder, each 60c.; postpaid, 70c.

No. 6—Brooder Thermometer for Prairie State Brooders, each 50c.; postpaid, 55c.

INCUBATOR LAMPS

No. 1 Lamp and Burner, using 1/2-inch wick, 60c. each.

No. 2 Lamp and Burner, using 1-inch wick, 65c. each.

No. 3 Lamp and Burner, using 1 1/2-inch wick, 75c. each.

Brooder Lamp, complete, 75c. each.

No. 1 Sun Hinge Burner..... 25c.

No. 2 Sun Hinge Burner..... 35c.

No. 3 Sun Hinge Burner..... 50c.

No. 1 and 2 Wicks..... 15c. doz.

No. 3 Wicks..... 25c. doz.



EGG TESTER.

Price, 25c.

Postpaid, 35c.

It may be attached to any form of outdoor brooder two feet or more in height, to any size or form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. It fills that want, felt by everyone who raises poultry, for something they can use anywhere, any time, and do the work well. The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward, to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired.

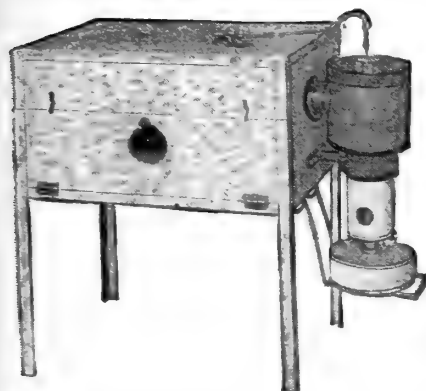
A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 Sun Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot-air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1 to the regular price a standard water regulator may be attached to the hover, by the use of which a uniform temperature can be maintained without close attention. It is not essential, but a great convenience during the cold, changeable weather, and greatly aids the operator in supplying the desired conditions for newly hatched chicks, relieving him of any cause of worry concerning the brood.

UNIVERSAL HOVER—Price for hover, with lamp case, smoke conductors, lamp and thermometer..... \$7.00

When used indoors alone, lamp case and smoke conductors are not required. Hover and lamp..... 6.00

Hover regulator, \$1.00 extra.

KEYSTONE INCUBATOR



This machine is double case, outside galvanized iron; inside 1-inch soft wood.

No incubator has a better system of heat distribution, more economical heater or a more sensitive regulator.

The latest and best principles in artificial incubation are incorporated in this machine.

The heater is outside of machine, a form of construction that adds to safety and ease of operation. The heater is covered with best asbestos jacket.

The legs are detachable, made of galvanized iron. Door is made of wood, covered with galvanized iron.

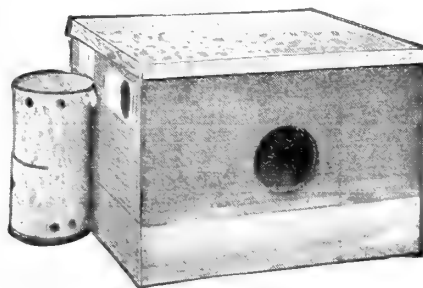
The lamp is made of pressed steel, one-piece bowl. It is held in position by a powerful steel spring clamp.

This incubator is not to be compared with the cheap machines now on the market.

Weight, crated, 60 lbs.; weight, net, 48 lbs. Capacity, 60 eggs. Price, \$10.00.

IF KEYSTONE INCUBATOR AND BROODER ARE PURCHASED TOGETHER, PRICE \$16.00.

KEYSTONE BROODER



This Brooder can be used indoors as well as outside; is 24 inches wide, 20 inches long, 18 inches high; constructed of 1-inch soft wood throughout and painted. Has galvanized iron roof.

This Brooder is divided into two parts, hover and

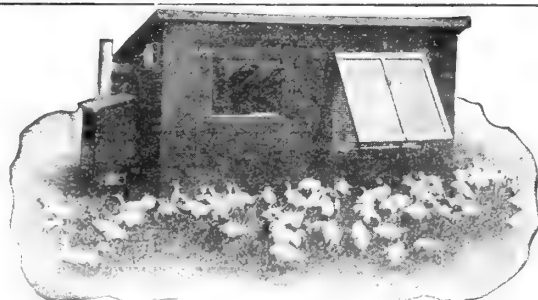
run. The lamp is placed in a galvanized case outside of brooder.

While this brooder is low in price, it is practical and successful, and makes a good running mate for the **Keystone Incubator**. It is absolutely water-proof. The floor is off the ground a sufficient distance to make it dry. When brooder door is closed, the chicks are safe from varmints. The floor has no obstruction of any kind, making the brooder exceptionally easy to clean. The top is hinged, giving ready access to the chicks. The hover is removable.

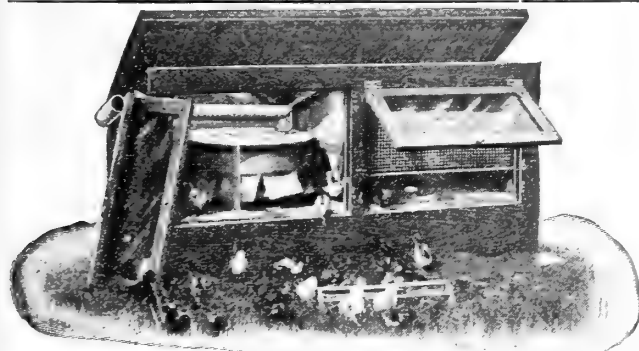
Weight, 59 lbs. Price, \$8.00.

THE COMBINATION COLONY BROODER, No. 1

This Brooder House is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear, with tin roof. The interior is divided by a movable partition into two compartments—the nursery room and the exercising room or sun parlor. The nursery is double walled, top and sides, with dead-air space and paper insulation between the board partitions, securing warmth and uniform temperature. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 inches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the floor of nursery and permits easy cleaning of the apartment.



No. 1—Colony (Outdoor). Weight, crated, 300 lbs. \$20.00.



No. 2—Colony (Outdoor). Weight, crated, 208 lbs. \$16.00.

THE COMBINATION COLONY BROODER, No. 2

This Brooder is similar to the No. 1 in construction and is 60 inches long, 30 inches wide, 20 inches high in rear and 30 inches in front.

The interior is divided into two large compartments by a movable partition—the nursery room, and the sun parlor or exercising room; the floor throughout being on a level and 8 inches from the ground. Between the nursery and exercising room is an opening 18 inches wide, with a wooden door, hinged to open and close at will, so when desired the chicks may be confined in either apartment. With the wooden door opened, the space is covered with a heavy felt curtain, slitted for easy passage of the chicks back and forth. Two glass doors, 26x14 inches, furnish access to the chicks confined. A movable board below the glass door brings each opening level with the floor and permits easy cleaning of each apartment.

The Combination Colony Brooder, No. 3

The sanitary condition of this brooder is perfect, all parts of the brooder being instantly accessible.

The hover is 20 inches in diameter, of the Universal type. It lifts out, and is provided with a thermometer, by means of which the temperature can be taken without opening the brooder.

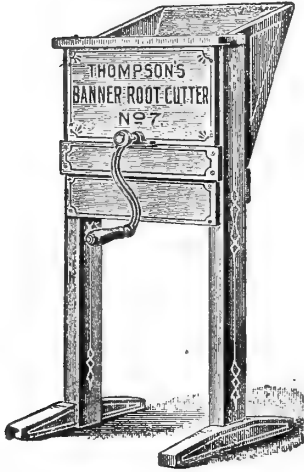
The brooder is 27 inches wide, 48 inches long, 19 inches high in the rear and 28 inches high in the front. The lamp is placed in the same position as with the No. 2 Colony Brooder, and burns steadily under most stormy weather of wind or rain.



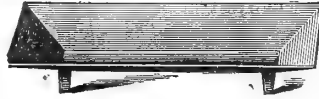
No. 3—(Outdoor). Weight, crated, 150 lbs. \$12.00.

Heat Regulator attached to any of the above Brooders, \$1.00 extra.

Thompson, Jr., No. 7 Iron Poultry Troughs Root Cutter



No. 7.
This Cutter is adapted especially for poultrymen and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Weight, 50 lbs. Price, \$5.00.



This is an indispensable article for persons raising poultry. Is readily cleaned, and no leaking.

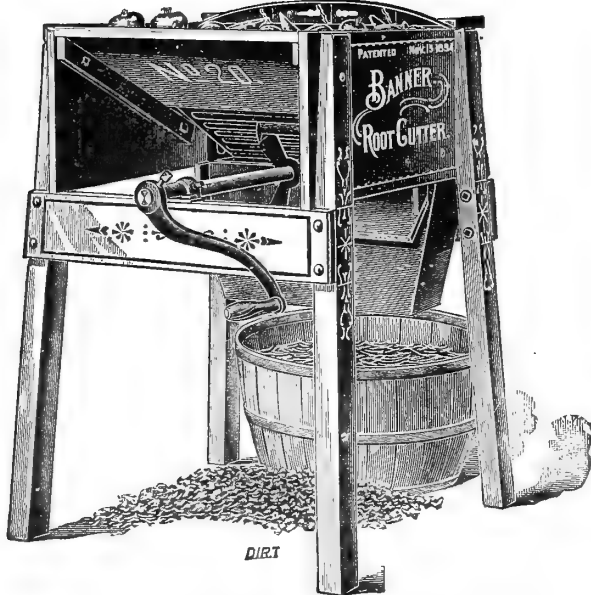
No.	Top.	Depth.	Length.	Weight.	Price.
1W	3 1/2"	1 1/2"	7 1/2"	3 lbs.	25c.
5W	3 1/2"	1 1/2"	19"	6 1/2 lbs.	40c.
6W	3 1/2"	2 3/4"	22"	12 lbs.	80c.
9W	6 3/4"	2 3/4"	29"	18 lbs.	\$1.00

The No. 1W Trough is provided with a lid having three holes, from which chicks can eat the meal without wasting.

Climax Leg Bands



Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place. Price, per dozen, 20c. Per 50, 80c. Per 100, \$1.00.



THE BANNER ROOT CUTTER

Built in Two Sizes for Both Hand and Power.

Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

THE No. 20—FOR HAND USE.

Has a capacity of 30 to 50 bushels per hour. Weight, 120 lbs. Retail price, \$9.50. Special Discount for Cash.

We can furnish Crank Cutter, built with balance wheel, same to be of large capacity, on which we can make very low prices.

THE No. 16—SMALL POWER CUTTER.

With Fly Wheel and Band Wheel.

Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our retail price, \$15.50. Special Discount for Cash.

PHILADELPHIA GAPE EXTRACTORS, 25c. EACH.

DAVIS FOOD AND WATER FOUNTAIN

The only fountain on the market which can be satisfactorily used for either water or grain, grit, oyster shells, etc.

The only fountain which is adapted to hold any ordinary glass bottle or can as a water retainer. It is hung up and cannot get tipped over or filled with dirt, as do fountains arranged to be set on the floor, and chicks can't get drowned in it.

Can be emptied and refilled in an instant without removing bottle or can from the holder. Merely invert and slip mouth of bottle or can to one side, fill, replace, and turn fountain to upright position again.

Price, 25c. We do not furnish the bottle.



BEEF SCRAP HOPPER



This hopper is made of heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef scrap and dry mash, articles that every user of hoppers knows are difficult to feed. This hopper is a sure and safe feeder, and will not clog. All joints riveted or seamed. Capacity, 10 pounds scrap. Price, each, 75c.

LICE KILLER AND NEST EGG.

Combined in One.

Lasting, effective.

Not expensive.

Does not affect the flavor of the egg nor injure it for hatching.

60c. dozen.

Nesco Galvanized Drinking Fountains

1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 30c. Dozen, \$3.00. 4 Quarts, 50c. Dozen, \$5.00. 8 Quarts, 75c. Dozen, \$7.50.

BALTIMORE FOUNTAINS.

Earthenware—1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 35c. Dozen, \$3.50. 4 Quarts, 45c. Dozen, \$4.50.

PORCELAIN NEST EGGS.

The best and cleanest nest egg used. Each, 5c. Dozen, 25c. By mail, 50c.

WIRE HEN NESTS.

Each, 15c. Per dozen, \$1.50.



CAPONIZING TOOLS.



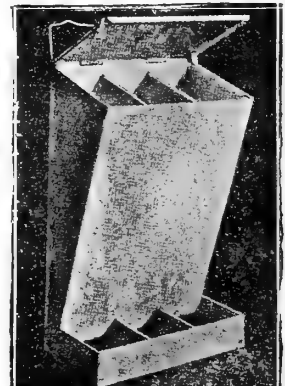
You can do your own caponizing easily. Book with full instructions sent free with each set of instruments. Price, with instructions, \$2.75. Farmers' Caponizing Tools, \$3.00 each.

French Poultry Killing Knife



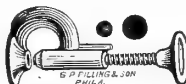
Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 50c.

Galvanized Iron Grit and Shell Boxes



Price, small size, 3 compartments, 50c. each.

POULTRY MARKERS.



For marking young and old chickens. Made in two sizes, for large or small chicks. Sent by mail on receipt of price, 25c.

METZ'S GAPE WORM EXTRACTOR.

The latest improved method of extracting the Gape Worm. Humane and sure. Directions accompany each instrument. 25c.

Keystone Food Chopper

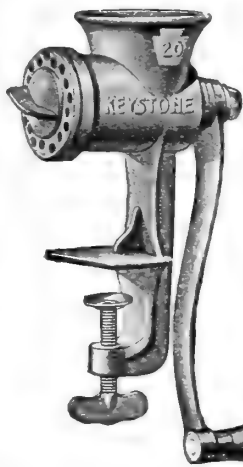
Chops All Raw or Cooked Meats and All Kinds of Vegetables and Fruits.

**DOES NOT MASH
OR SQUEEZE
OUT THE JUICES,
BUT DELIVERS
CLEAN-CUT,
UNIFORM PIECES.**

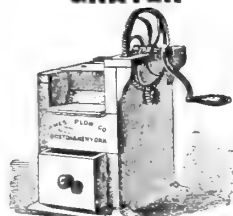
No. 10, weight 3 $\frac{3}{4}$ lbs., will chop 1 $\frac{1}{2}$ lbs. meat per minute.
Price, each, \$1.00.

No. 20, weight 4 $\frac{1}{2}$ lbs., will chop 2 lbs. meat per minute.
Price, each, \$1.15.

No. 30, weight 6 $\frac{1}{4}$ lbs., will chop 3 lbs. meat per minute.
Price, each, \$1.50.

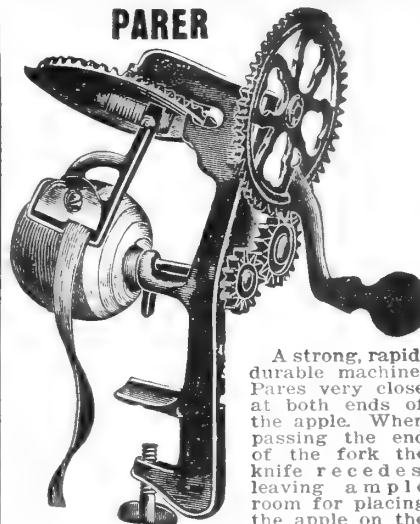


HORSE RADISH GRATER



With tin clad cylinder for Horse Radish.
List price.....\$7.50
Retail 7.00
With steel pin cylinder for Horse Radish.
List Price.....\$8.50
Retail 8.00
With steel pin cylinder for Coconut.
List price.....\$9.50
Retail 9.00
With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank.
List price.....\$15.00
Retail 14.00

1898 TURNTABLE APPLE PARER



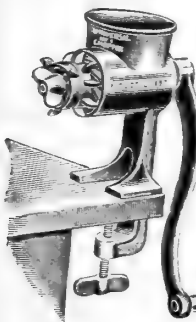
A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. Price, 75c. each.

THE UNIVERSAL FOOD CHOPPER

Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity.
No. 0, Small Family, three cutters \$1.00
No. 1 1.15

UNIVERSAL MEAT CHOPPERS.

No. 331 \$2.25
No. 333 2.50
No. 304 3.50



HOME CANNING BOILER

A Canning Factory in Every Home

Will successfully can fruits and vegetables in either tin cans or quart glass jars. Pork and beans, which are so difficult to bake in an ordinary oven, can be very nicely put up in this boiler. About 20 pints can be put up at once, and enough pork and beans for the entire year made in a day. The same applies to tomatoes, corn, asparagus, beans, etc., as well as family preserves, which can be put up with or without sugar, as desired.

The boiler will hold 24 tin cans or 14 Mason quart jars at one loading. The work can be done on an ordinary cook stove or range. With every boiler is sent a complete set of instructions and recipes for putting up the ordinary fruits and vegetables. These are the regular canning factory recipes and not the ordinary cook-book style.

The instructions are so simple that any one with ordinary intelligence and a little precaution can put up canned goods, preserves, jellies and marmalades in as good shape as the finest equipped factory.

The complete outfit consists of boiler, steam gauge, safety valve and crate. Weight, 80 lbs. For persons preferring to use tin cans, a soldering outfit can be furnished at an extra cost of \$10.00, and consists of gasoline blast furnace, two round capping irons and two tipping coppers.



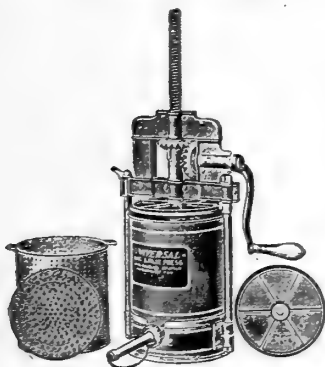
Home Canning Boiler, \$15.00

SOLDERING OUTFIT FOR TIN CANS, EXTRA, \$10.00

UNIVERSAL ALL STEEL LARD AND FRUIT PRESS AND SAUSAGE STUFFER

This Machine is an unexcelled Lard Press, an equally good Sausage Stuffer, and is also extensively used for pressing the juices from fruit for making jelly, etc. The "Universal Steel Press" has many advantages over the old style cast-iron press. It is unbreakable, rigid and strong, and is more easily handled because it is lighter.

No. 44—4 qts. \$5.50
No. 66—6 qts. 6.25
No. 88—8 qts. 7.00

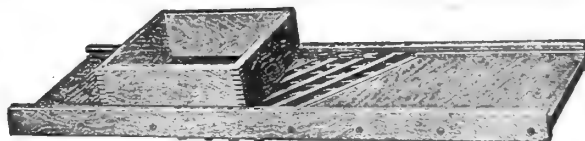


SLIDING KRAUT CUTTER

Sliding Kraut Cutter With Two, Three or Four Knives.

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

In the old style kraut cutters the knives could rarely be adjusted just right, and if they were, they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife perfect, being controlled with $\frac{1}{4}$ -inch round-head stove bolts.



No. 50—2 Knives, 8x26 inches.....\$1.25
No. 55—3 Knives, 8x26 inches..... 1.50
No. 65—3 Knives, 9x30 inches..... 2.75
No. 70—3 Knives, 12x36 inches..... 3.75
No. 75—4 Knives, 12x36 inches..... 4.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Sharples' Cream Separators

Among the many points of superiority are, first, the low-down tank supply; is just the right height to be handy and convenient. The base and body of these machines are cast in one piece, making the strongest frame of any Separator made.

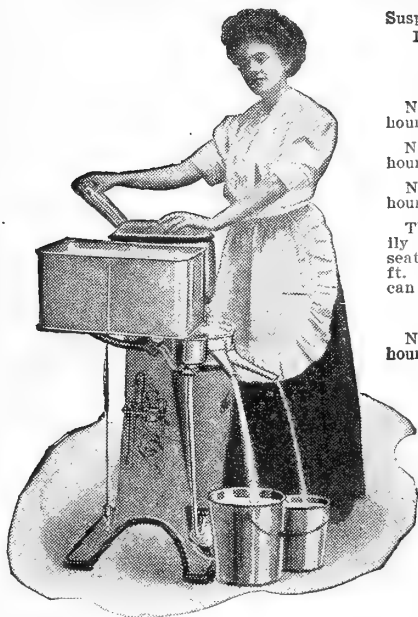
The bowl is very simple, only three parts, as follows: The bowl proper, a bottom and a dividing wall. The bowl is very easily washed, being free from corrugations or small holes.

One of the greatest drawbacks to disc machines is the multiplicity of parts to be cleaned. Any child can take out, wash and replace the tubular bowl. The bowl is suspended and hangs from a special fine ball bearing, containing nine balls; it hangs perpendicular and cannot get out of the balance, and is held perfectly rigid, overcoming jarring. The bearings are all made of very finest material, machine cut, and run in a perfectly straight line; no vibrations whatever. There are no bevel gears. The saving in oil is reduced to a point that no other Separator has or can have. There are no oil holes to be searched for; no oil cups to be troubled with, especially in cold weather. The Tubular requires oiling but once a week. The oil is continuously carried up in a spray from the bottom of the gear case and used over and over again. Thorough lubrication is of the utmost importance in high-speed machines like a Cream Separator.

An exclusive idea is the bottom feed principle. Separation begins immediately the milk enters the bowl. With the bottom-feed principle you do not have to remove the supply can to get at the bowl. This is a very important point.

In short, the Sharples Tubular Separator is the least expensive to keep in order, the closest skimmer and easiest to oil of any machine on the market.

Tubular Hand Separator



Suspended Bowl, Bottom Feed,
Low-Down Supply Can,
Easy Running, No
Discs.

No. 1, capacity 175 lbs. per hour. Price \$40.00.

No. 2, capacity 275 lbs. per hour. Price \$55.00.

No. 3, capacity 350 lbs. per hour. Price \$65.00.

These three sizes are readily turned by one who is seated. They stand only 2 ft. 9 1/2 in. high; the supply can is still lower.

STAND UP SIZES.

No. 4, capacity 450 lbs. per hour. Price \$75.00.

No. 6, capacity 650 lbs. per hour. Price \$90.00.

No. 9, capacity 900 lbs. per hour. Price \$110.00.

Pulley Power
Attachment,
\$2.50 Additional.

These three sizes stand only 3 ft. 6 in. high; the supply can is still lower.

Sharples' Jersey Disc Separator

The Jersey Disc Separator will satisfy any one who can be satisfied with a "disc" machine. It is guaranteed by the factory to be better in every particular than any other Separator of its class. It has only one superior, and that is the Tubular. Price \$40.00.

Steam Turbine Tubular Dairy Separator

DRIVEN DIRECT FROM THE BOILER.
MADE IN THREE SIZES.

No.	Capacity.	Price.
5.	500 pounds per hour.....	\$80.00
7.	700 pounds per hour.....	100.00
10.	1,000 pounds per hour.....	125.00

Either size, with Little Giant Boiler,
\$50 extra.

SEPARATOR OIL.

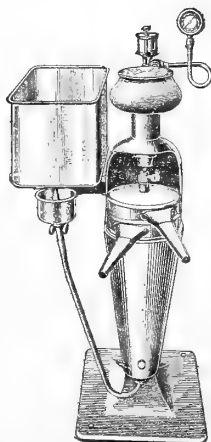
Gallon Can, 75c. 5-Gallon Can, \$2.50.

Just a jet of steam, not much larger than would go through a straw, drives it to full speed. An armload of wood or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run.

The bowl when apart has a wide-open mouth, and not much more trouble to clean than a tin cup would be. In cleaning there is no danger of misplacing small complicated parts, for it has no such parts.

This machine stands 36 inches high—requires very little steam—is the most efficient power separator for daily use.

For Separator Boiler, see page 63.



White Mountain Refrigerators

SOLID STONE-QUARRIED—SNOW WHITE

Artistic Rounding Corners

The real extreme of beauty, of compactness—our Solid Oak "Stone White" case now brought out in gracefully rounding corners—that is, the front blends right into the side, or rolls right up to the cover in a full, easy curve, eliminating all mouldings and adding a tone of solidity and general beauty to the already strikingly handsome "Stone White."

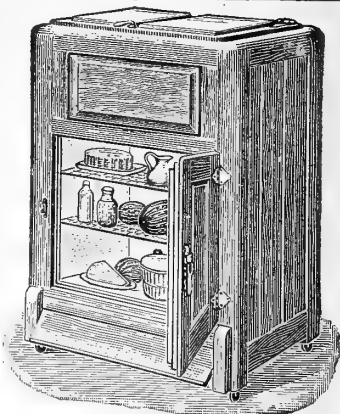
You must see the "Rounding Corner" as we make it to appreciate the statements above.

Solid Bronze turn-buckle or lift and massive "stop" hinges.

Every interior part removable.

No.	Lbs. Ice	Length	Depth	Height	List Price	Special Price
902	50	25 in.	19 in.	43 in.	\$48.25	\$26.00
903	75	28 in.	21 in.	45 in.	53.50	29.00
904	100	31 in.	22 in.	47 in.	59.50	32.25

If with cooler, add to list \$8.50. Special price, \$4.75.



"New Hampshire" Pine

This Refrigerator
Preserves Food
as Well as Any
More Expensive
Refrigerator

Beautiful Pine; massive double walls interlined with heavy sheathing of charcoal and with deep, dead-air space; every joint tongued and grooved; no wooden surface to absorb impurities. Provision chamber of heavy galvanized steel, steel shelves, free action durable casters, massive door and cover case of thoroughly seasoned Pine, finished in dark "Golden Oak."

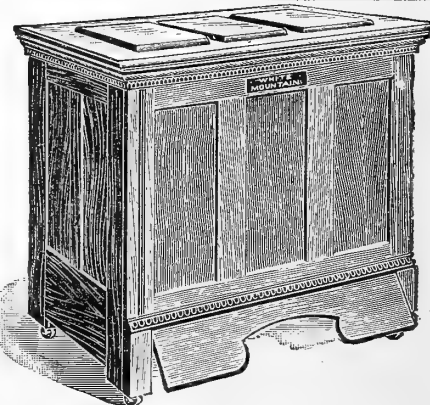


No.	Lbs. Ice	Length	Depth	Height	List Price	Special Price
101	30	24 in.	18 in.	38 in.	\$16.75	\$9.25
102 1/2	60	27 in.	20 in.	42 in.	22.00	12.00
104	100	33 in.	21 in.	45 in.	27.00	14.75

If with cooler, add \$8.50 to list. Special price, \$4.75.

"White Mountain" Hardwood Ice Chest

Our superior Hardwood Ice Chest in three nicely graded sizes, each conveniently arranged and easily cleaned. "Golden Oak" finished case, has extra thick and thoroughly insulated walls. Shelves and ice rack of galvanized steel. Made to excel in economy, food preservation and handsome appearance.



No.	Depth	Height	Length	List Price	Special Price
13	21 in.	33 in.	33 in.	\$21.00	\$11.50
14	22 in.	35 in.	36 in.	24.25	13.25
15	24 in.	37 in.	39 in.	27.25	14.75

The New Sanitary Cream Separator



STYLE A.

No.		List Price.	Retail Price.
2 1/2	With 2 1/2-gal. tin milk vessel.	\$5.00	\$4.00
4	With 4-gal. tin milk vessel.	6.00	4.80
6	With 6-gal. tin milk vessel.	7.00	5.60
8	With 8-gal. tin milk vessel.	8.00	6.40

A very convenient style where larger milk capacity is required. It is made with ample space between the milk vessels to insert a cream can, butter box or cake of ice. It is identical with Style D, except that the cream can is not included.

No. 08—With two 4-gal. tin milk vessels. List price, \$11.00; Retail price, \$8.80.
No. 12—With two 6-gal. tin milk vessels. List price, \$12.00; Retail price, \$9.60.
No. 16—With two 8-gal. tin milk vessels. List price, \$13.50; Retail price, \$10.80.



STYLE B.



STYLE D.

	List Price.	Retail Price.
08D—With two 4-gal. tin milk vessels and 4 gal. cream can.	\$12.00	\$9.60
12D—With two 6-gal. tin milk vessels and 4-gal. cream can.	13.00	10.40
16D—With two 8-gal. tin milk vessels and 4-gal. cream can.	14.50	11.60

The "DOTY" Ventilating and Aerating Cream Separator

For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator.

Has reversible cover and anti-whirlpool bottom and approved method of aerating the milk.

No.	Cap'y, Height.	Gals.	Cows.	List Price.	Retail Price.
0	20 in.	6	1 to 2	\$4.00	\$3.25
1	25 in.	10	2 to 3	5.00	4.00
2	27 in.	15	3 to 4	6.00	4.80
3	27 in.	22	4 to 7	7.00	5.60
4	27 in.	29	7 to 10	8.00	6.40



Inside of bottom aluminized to prevent rusting.

1. Milk and water are not mixed.

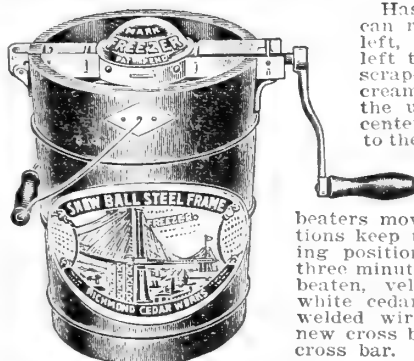
2. You can draw pure, sweet, undiluted milk for household use any time without disturbing the cream. The skim-milk makes excellent feed for stock.

3. It is a most convenient and labor-saving apparatus for the farmer and dairyman. Saves all lifting, skimming and handling of crocks and pans.

4. Milk vessel is easily and quickly removable without unscrewing the faucet.

5. The faucet is large and short in the neck and drilled out smooth on the inside. Will draw off cream and milk rapidly without clogging.

"SNOW-BALL" FREEZER



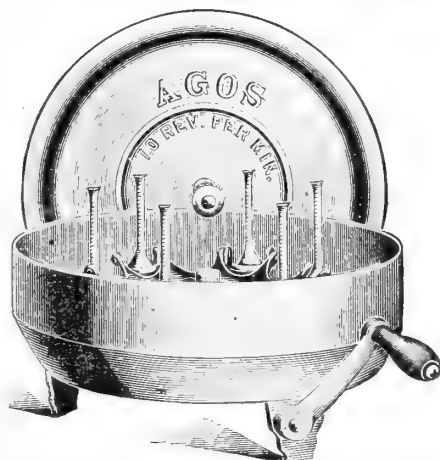
Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

List.	List.	Retail.	Retail.
1 qt....\$1.80	4 qt....\$3.15	1 qt....\$1.50	4 qt....\$2.75
2 qt.... 2.25	6 qt.... 4.00	2 qt.... 2.00	6 qt.... 3.50
3 qt.... 2.70	8 qt.... 5.10	3 qt.... 2.30	8 qt.... 4.50

The "AGOS" Cast-Iron Frame Hand Babcock Tester

The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as follows:

4 Bottles....	\$8.00
6 Bottles....	9.00
8 Bottles....	10.00
10 Bottles....	12.00
12 Bottles....	14.00

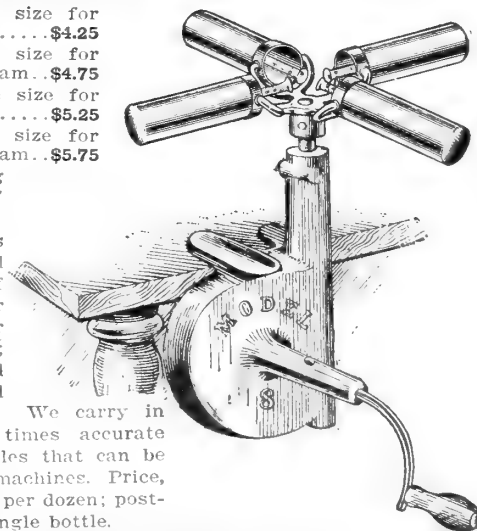


The Babcock Tester

No. 4-2 Bottle size for milk only.....	\$4.25
No. 5-2 Bottle size for milk and cream..	\$4.75
No. 6-4 Bottle size for milk only.....	\$5.25
No. 7-4 Bottle size for milk and cream..	\$5.75

Shipping weight about 17 pounds.

All Testers are equipped with full set of glassware for testing milk or milk and cream; also furnished with brush and bottle of acid. We carry in stock at all times accurate skim-milk bottles that can be used in these machines. Price, 50c. each, \$5.50 per dozen; postage, 10c. for single bottle.

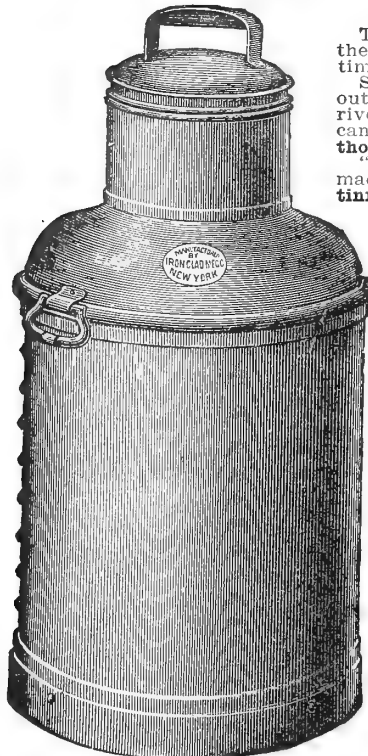


ASEPTIC MILKING TUBES.

For Cows with Sore Teats.

Insert one in the teat and the milk will flow. Each, 25c.

"IRON CLAD" MILK CANS



BALTIMORE PATTERN.

The Baltimore Pattern.

This cut illustrates it. It is the standard "Iron Clad" Baltimore Pattern Milk Can.

Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

"Iron Clad" Milk Cans are made of steel and heavily tinned by the hand-dipping process **AFTER** they are formed.

Look for the Trade-Mark "Iron Clad" stamped in each and every can. No other tinplate cans bear this trade-mark.

THE BALTIMORE PATTERN.

20-quart.....	\$2.50
30-quart.....	2.75
40-quart.....	3.25

Special Prices in Quantities.

Our charge for marking name on can will be 25 cents each.

Can furnish cheaper cans. Prices on application.

Champion Automatic Milk Cooler-Aerator

To operate—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the use very cold water. Use a cloth or metal strainer over the top of milk receiver.

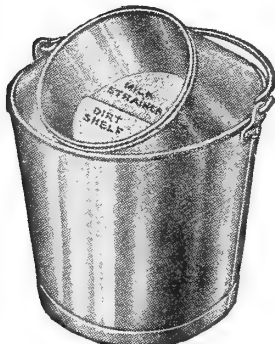
No.	Capacity of Milk Receiver.	Size of Dairy.
2.....	18 quarts	10 to 25 cows
3.....	34 quarts	25 to 50 cows
4.....	52 quarts	50 to 100 cows

No.	Takes Care of	Factory List Price.	Our Special Price.
2.....	3 milkers	\$7.00	\$5.00
3.....	5 milkers	8.00	5.75
4.....	8 milkers	10.00	7.00

Extra sizes on special orders. Prices include double cheesecloth strainer and spring pins.

STRAINERS.—Strainers of the finest mesh wire cloth (100 meshes to the inch) furnished at following prices: Nos. 2, \$1.00. No. 3, \$1.25. No. 4, \$1.50.

Sterilac Sanitary Milk Pail



This Pail has the endorsement of the most progressive dairymen of the country, as well as Health Board officials and physicians. There is absolutely no other way at so small a cost to effectively prevent complaints of retail customers, creameries or milk depots, or to obtain their confidence.

Note the strainer cloth on which the milk strikes.

Note the dirt shelf which catches the dirt falling from the udder. The projecting top shields the strainer cloth from falling dirt.

It is easy to use, because the opening is of ample width. It does not spatter.

Our Special Price, \$2.75.

The Chapman Patent Changeable Strainer

Model No. 2—With Cheesecloth Attached.

For the use of small dairies or for household purposes, for which a medium-sized strainer is used, such as fruit, paint, vinegar, lard, etc.

Model No. 3—With Cheesecloth Attachment.

Especially adapted to the use of large top straight cans. The shape of No. 3 is such that it can be used on any sized can, either small or large top.



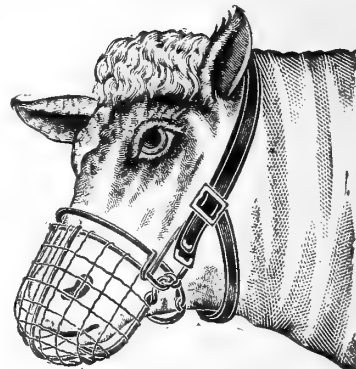
Model No. 2, \$1.00
Model No. 3, \$1.50

SHAW'S CALF WEANERS

The Shaw's Calf Weaner is made in three sizes, and is not only scientifically constructed, but is also thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

It is first class in every respect.

Prices: No. 1, 25c.; No. 2, 35c.; No. 3, 50c.



COMMON SENSE Calf Feeder

Gold Medal Pan-American Exp.

The only feeder adopted by Experiment Stations.

Satisfaction guaranteed.

Easiest to operate and clean. No valves to get clogged or foul.

Prevents Scours.

Weans perfectly. Calves take to it like a baby to the bottle.

It's Nature's Own Way.

Over 100,000 in Use.

More than all others combined.

Extra gain on one calf pays for two feeders.

Nipples are reinforced without seams.

Durable, Simple, Economical, Scientific and Practical.

Single Calf Feeder (2 Nipples).....\$2.00

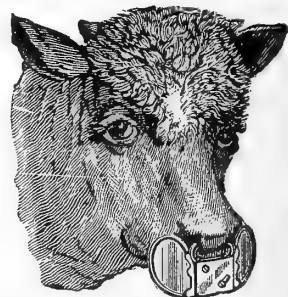
Double or Twin Feeders.....3.00

Calf Nipples and Long Tubing, each .25

TRAPP'S PATENT COW TAIL HOLDER

If you wish to make it pleasant in milking, you should use Trapp's Patent Cow Tail Holder. Does not irritate or make a cow kick. Easily and quickly operated. Holds the tail firmly. Retail price.....15c. Two for.....25c.

RICE'S CALF WEANERS



BEST XXX BLOCK TIN.

No. 5302—12-quart....55c.
No. 5304—14-quart....60c.

HEAVY GALV. PAI.

No. 5602—12-quart....50c.
No. 5604—14-quart....55c.

Also Prevents Cows from Sucking Themselves.

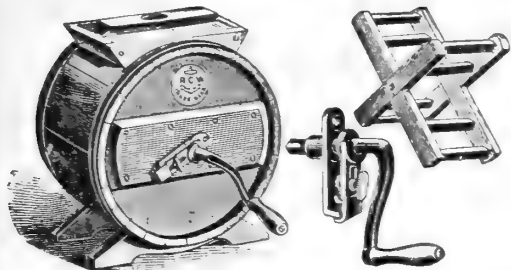
No. 1, for Calves, Retail price, 25c. List price, per doz....\$3.50
No. 2, for Heifers, Retail price, 40c. List price, per doz....6.00
No. 3, for Cows, Retail price, 60c. List price, per doz....8.50

COW-EASE

Cow-Ease will drive away flies and kill lice on all stock and poultry. It will not injure the most sensitive skin.

PRICES.—Quart, 35c.; gallon, \$1.00; 5 gallons, \$4.50; barrels, per gallon, 80c.

Sprayer for applying Cow-Ease, 50c.



CEDAR CYLINDER CHURNS

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No. 1—2 1/4 gallons...\$2.50 No. 3—7 gallons...\$3.50
No. 2—4 gallons...3.00 No. 4—10 1/2 gallons...4.00



BALTIMORE FAVORITE CHURN

Patented July 5, 1891.

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

We furnish pullers for power. Prices extra, according to size desired. Directions for using in each Churn.

Special discount for cash.

PRICES.

No.	Capacity.	To Churn.	List Price.	Retail Price.
0—6 gals.	3 gals.		\$8.00	\$5.00
1—10 "	7 "		9.00	5.50
2—15 "	10 "		10.00	6.00
3—20 "	12 "		11.00	6.75
4—25 "	14 "		12.00	8.50
5—35 "	17 "		16.00	10.00
6—60 "	30 "		26.00	16.00
7—75 "	37 "		30.00	18.50
8—90 "	45 "		35.00	21.00

10-inch Single Pulleys for above, List, \$3.25. Retail, \$2.00.

Floating Glass Thermometers



SO-BOS-SO will Increase the Production of Milk 15 to 20 Per Cent.

A Thorough Disinfectant and Germicide

Cows during the summer months, when flies are so troublesome, spend most of their time in shady places and ponds of water, when such places can be found, seeking relief from irritation of flies, instead of feeding. By the use of So-Bos-So all this is changed. The cows are protected from the terrible torture of flies, feed quietly and produce the maximum amount of milk. At milking time the stables, cows and milkmen are free from flies.

Say the average cow produces \$30 worth of milk during the summer months. By the systematic use of So-Bos-So the amount will be increased 20 per cent., equal to \$6. The cost will not exceed 75 cents. Thus on an investment of 75 cents you have made a net profit of \$5.25 on one cow. Suppose you have ten, twenty, thirty or more cows, see how it figures? A moment's work with the Atomizer and a little So-Bos-So, and all is quiet and serene. From 30 to 50 cows can be sprayed in a very short time.

Use So-Bos-So in your Poultry Yards and Pig Pens. It kills lice and vermin. Stable and stock should be sprayed occasionally in winter as well as summer.

So-Bos-So is used with splendid effect on horses while at work, especially draft horses, traveling at a slow pace and oftentimes obliged to stand for long intervals, harnessed to a truck.

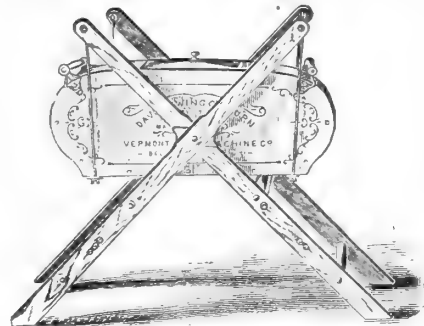
So-Bos-So will be greatly appreciated by blacksmiths. A moment's work with the Atomizer will rid the shop of flies, and the horses stand perfectly quiet.

So-Bos-So is no longer an experiment. It has been on the market for eight years, the trade has grown by leaps and bounds. Your use of So-Bos-So will result in more and better milk, more money, more comfort for cows, for horses and for you.

SO-BOS-SO, per gallon, 75c. SPRAYER for applying SO-BOS-SO, each, 50c.



DAVIS SWING CHURN



EASY TO KEEP CLEAN.

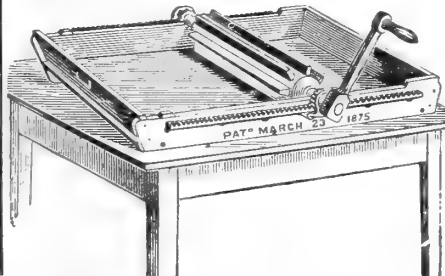
The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault. The butter comes in beautiful granules in the most desirable form for washing in cold water or brine.

Each Churn has a glass indicator in the cover. The lid is ventilated and there is no slopping or dripping of cream. Easy to operate.

No.	Will churn.	Capacity.	Wt.	Lbs.	Price.
1—	4 gals. or less.	8 gals.		55	\$8.00
2—	5 "	10 "		59	9.00
3—	8 "	16 "		73	10.00
4—	10 "	20 "		85	12.00
5—	13 "	26 "		98	15.00
6—	17 "	34 "		112	18.00
Additional for Pulley, 12x3, with attachments,					
\$4.	Additional for Tight and Loose Pulley, 12x3,				
	with attachments, \$5.50.				

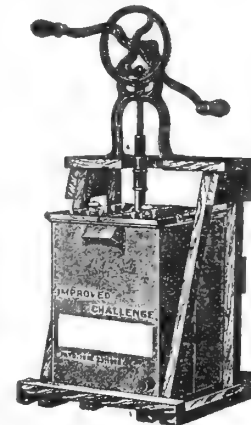
Additional for Pulley, 12x3, with attachments, \$4.00.
Additional for Tight and Loose Pulley, 12x3, with attachments, \$5.50.

REID'S BUTTER WORKER



CHALLENGE CHURN

MAKES BUTTER IN 2 TO 7 MINUTES.



The rapid centrifugal motion of The Challenge Butter Maker produces a most remarkable agitation, and aided by the air which is distributed through the cream forces every particle of butter to the top gathered in granular form, and in addition to the saving of time and labor, the yield of butter being greater, in a short time the cost of the Butter Maker is saved.

No. 1—3 Gallons—Capacity 1/2 to 2 gallons of cream.....	\$5.50
No. 2—5 Gallons—Capacity 1 to 3 gallons of cream.....	6.00
No. 3—8 Gallons—Capacity 1 to 4 gallons of cream.....	7.00
No. 4—10 Gallons—Capacity 2 to 5 gallons of cream.....	10.00

PRICES REID'S BUTTER WORKER

No.	Inside Measure- ment.	Capac'y. Lbs.	Wt. Lbs.	List Price.	Retail Price.
1—23x36x2 1/4	in.	50	45	\$10.00	\$8.00
2—20x36x2 1/4	in.	30	29	8.00	6.40
3—17x27x2 1/4	in.	20	25	7.00	5.60
4—14x24x2 1/4	in.	10	20	6.00	4.80

Larger size, especially designed for mixing, reworking and coloring, or creamery use.

No.	Inside Measure-ment.	Capac'y. Lbs.	Wt. Lbs.	List Price.	Retail Price.
0—	23x37x3 in.	75	60	\$12.00	\$9.40
00—	23x56x3 in.	112	80	15.00	11.25
000—	23x72x3 in.	150	100	18.00	13.50

When desired, we can send lens along with any size machine for \$4.00 extra, which can be set up after arrival at destination.

8-inch. Price 25c. each.
10-inch. Dairy Thermometer, stands boiling water, price 50c. each.

Milk Hydrometer, No. 2080, 40c.
Milk Hydrometer, No. 2085 (Quevenne), 75c.
Add 8 cents each if by mail.



Fig. 2.

Round and Square Butter Moulds

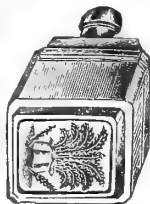


Fig. 3.

- Fig. 2—R. & B. $\frac{1}{2}$ pound, round...\$.25
 Fig. 2—R. & B. 1 pound, round... .30
 Fig. 3—R. & B. $\frac{1}{2}$ pound, square... .30
 Fig. 3—R. & B. 1 pound, square... .35

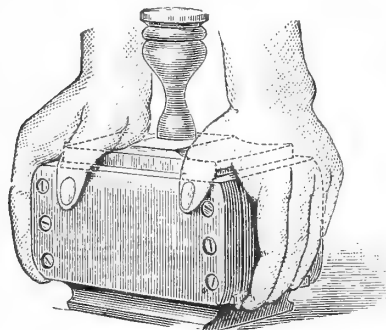
BRICK BUTTER MOULD

Seeley Pattern.

Furnished with sheaf of wheat. Movable block, $\frac{1}{2}$ pound.

Seeley Pattern, 60c.

Fig. 4. (This shows the way mould is used.)



Extra Heavy Brick Butter Mould

- Fig. 4—Philadelphia Pattern, $\frac{1}{2}$ pound.....\$1.00
 Fig. 4—Philadelphia Pattern, 1 pound..... 1.50

Can furnish square moulds to order with initials cut at an extra cost of \$1.00.

- Round prints, $\frac{1}{2}$ pound.....\$.10
 Round prints, $\frac{1}{4}$ pound..... .10

Individual Butters

- Square, $\frac{1}{2}$ ounce.....\$.15
 Square, 1 ounce..... .15
 Round, 1 ounce..... .10



Ladles and Spades

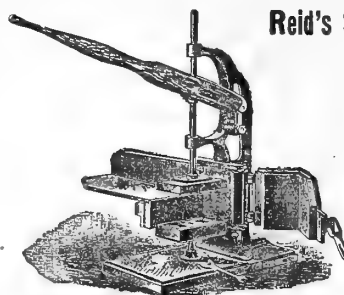
- 4x12 Butter Spade...10c.
 No. 1 Butter Ladle...15c.

All tanks are built refrigerator style, with paper between the sheet iron and the wood. In addition, it has a compartment or chamber underneath the water tank, through which the milk and afterward the cream are drawn. The transparent pane in front enables the operator to see the cream line. The cream line is not broken up in withdrawing the milk, which avoids all commotion or whirlpool when the milk is running out. A perfect separation is made. The cans are easily removed from the tank when desirable or necessary. They are easily washed without removing. The water tank has inlet and overflow pipes for running water.

DAIRY CLASS.

No. Cans.	Cows.	Weight.	Price:
0	1 to 3	185 lbs.	\$20.00
00	2	4 to 6	27.00
1	3	6 to 9	33.00
2	4	9 to 12	40.00
3	6	12 to 18	52.00
4	8	18 to 24	64.00

Cans are known in the market as 5-gallon cans, but hold 19 quarts.



Reid's Self-Gauging Butter Printer

Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

PRICE.

- Either pound or half pound.....\$10.00
 Both pound and half pound combined... 13.50
 Extra for initials and monograms..... 1.50

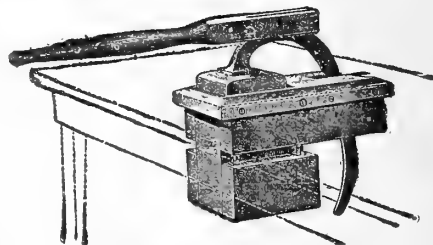
LA FAYETTE BUTTER PRINTER

This is also self-gauging. Intended for use in creameries, but more especially for reprinting. Very simple and handy.

Either pound or half pound, with table, \$15.00.

Either pound or half pound, without table, \$10.00.

Extra for initial or monogram, \$1.50.



BUTTER BOXES

These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

Capacity.	Price.
36 $\frac{1}{2}$ -pound prints.....	\$4.50
64 $\frac{1}{2}$ -pound prints.....	5.25
80 $\frac{1}{2}$ -pound prints.....	5.50
100 $\frac{1}{2}$ -pound prints.....	6.00
120 $\frac{1}{2}$ -pound prints.....	6.50
140 $\frac{1}{2}$ -pound prints.....	7.00
20 lb. prints, \$3.75	56 lb. prints, \$5.00
30 lb. prints, 4.25	80 lb. prints, 5.50
40 lb. prints, 4.75	96 lb. prints, 6.00
120 lb. prints.....	\$6.50

WELLS, RICHARDSON & CO'S BUTTER COLOR.

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring, being put up in three sizes, selling at 25c. to color 500 pounds; 50c. to color 1250 pounds; \$1.00 to color 2800 pounds.

PARCHMENT BUTTER PAPER.

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, 20c. per pound; by mail, 35c.; 6 pounds, \$1.00.

Polished Maple Bowls

- Bowls, 15 inches...35c.
 Bowls, 17 inches...55c.
 Bowls, 19 inches...75c.

COOLEY CABINET CREAMER



FAMILY CLASS.

No. Cans.	Cows.	Weight.	Price.
A 2	1 to 3	183 lbs.	\$20.00
B 3	3 to 4	216 lbs.	26.00
C 4	4 to 6	268 lbs.	32.00

Special Refrigerators in any size Cabinet Creamer, extra.....\$5.00

Partitions in Cabinet Creamers, extra..... 1.00

Faucet in outlet end instead of overflow..... 1.00

Faucet outlet in addition to overflow, extra..... 1.50

Stopper for closing openings when cans are removed, with nut and rubber packing..... .30

No. 4 and larger have two rows of cans and doors in each side, or in one row if so ordered. Prices of Creamers with tin-coated copper lining or copper cans given on application.

All sizes of Creamers have inlet and overflow pipes.

All sizes and styles of Creamers have thermometers in front side, which give the temperature without raising the cover. All thermometers are at purchaser's risk of breakage.

The Majestic ROTARY WASHER

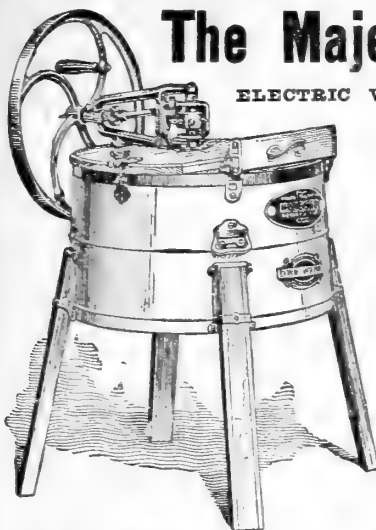
ELECTRIC WELDED WIRE HOOPS.

VIRGINIA WHITE CEDAR TUB.

ROLLER BEARINGS.

This is the lightest-running and easiest-working Washing Machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire, and are welded by electricity; these are much stronger than the old style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE, \$7.00.



BALTIMORE CEDAR WASHER

ELECTRIC WELDED WIRE HOOPS.

OUR SPECIAL PRICE

\$4.00

Constructed of best white cedar; improved gearings; all castings japanned. Inside fully corrugated like a wash board; no nails; no crevices for dirt, and allowing no steam to escape or water to leak. A square galvanized iron rod, instead of wood, to work the dolly; this can be lowered or raised without moving tops. Accommodates itself automatically to quantity of clothes. Impossible to tear the most delicate fabric. Our Special Price, \$4.00.



THE MARYLAND WASHER

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as Baltimore Cedar shown above.

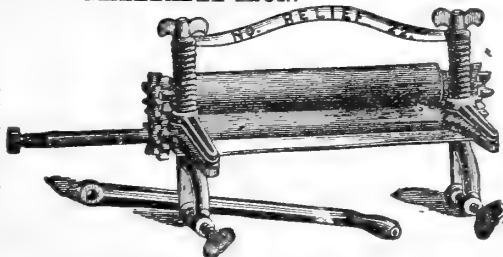
OUR SPECIAL PRICE.....\$3.50

RELIEF WRINGER

FRAME MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.

Thumb-nuts and spiral springs; pressure can be adjusted quickly for either heavy or light work; rolls never overstrained; wear longer than ordinary iron-frame wringer; cog wheels. Packed four and six in a case.

No. 330—SMALL FAMILY—Size of Rolls, 10x1 $\frac{3}{4}$ -in.....\$3.50
No. 332—LARGE FAMILY—Size of Rolls, 12x1 $\frac{3}{4}$ -in..... 4.25
 No. 330 Rolls, 10-inch, each..... 1.75
 No. 332 Rolls, 12-inch, each..... 2.00



SEWING MACHINES, No. 29B

FIRST-CLASS MACHINE FOR LITTLE MONEY. STANDARD FOR QUALITY, SELLS ON ITS MERITS ALONE

The manufacturers have won a commanding position as makers of a machine that is mechanically simple; mechanically correct; honestly constructed and equipped with every desirable modern improvement; easy to operate; built for long life; elegantly finished in head, frame and wood work. Very light running. A beautiful piece of furniture. Specifications: **Lift**, automatic; **Drop head**; four drawers; **automatic drawer lock**; **Stand**, ribbon pattern; **full ball-bearing**; **ball-bearing and steel pitman**; extra broad treadle; **belt guard to protect skirt**. **Spool-tray** to fit drawers. **Attachments**—1 Tucker, 1 Ruffler with shirring plate, 1 Hemmer set (4 widths) and binder, 1 Braider, 1 Thread Cutter, 1 Quilter, 1 Hemmer (which is also a feller). Also furnished free—1 Oil Can (filled), Gauge, 1 gauge screw, 1 Combination Screw Driver, 6 Bobbins and 1 Package Needles, 1 Instruction Book (in 5 languages). **Winning Features:** **High Arm**, **Capped Needle Bar** and **Pressure Foot Bar**, Four Motion Feed, Side-disk Tension, Automatic Tension Release, Positive Take-up, Automatic Bobbin Winders, Self-threading Shuttle. **Weight**, crated, 125 pounds. **Our Special Price, \$30.00.**



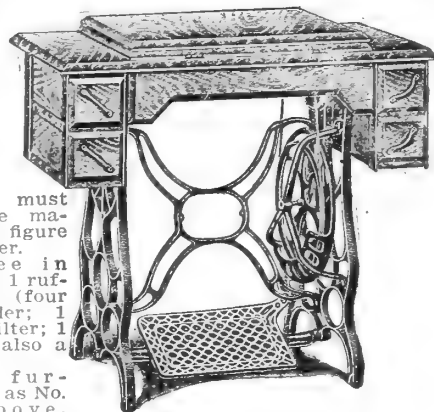
STYLE No. 60, NEW MODEL

By no means a cheap affair as far as material, construction, etc., are concerned, but high-grade in every respect. Particularly light running.

No. 60 New Model represents the best value obtainable; one who must have a serviceable machine at a very low figure need not look further. Attachments free in metal box; 1 tucker; 1 ruffler; 1 hemmer set (four widths), and binder; 1 thread cutter; 1 quilter; 1 hemmer (which is also a feller).

Free accessories furnished are the same as No. 29B described above. **Weight**, crated, 110 lbs.

Our Special Price, \$20.00.



BICYCLE WRINGERS

No. 122—Steel ball bearings; steel spiral springs; galvanized malleable iron frame. Warranted three years.

No. 122—Size of rolls, 10x1 $\frac{3}{4}$ -inch. Our special price, \$3.75

No. 770—Cog-wheel shields; steel ball bearings; flat steel springs. Warranted three years. **Wood frame.**

No. 770—Size of rolls, 10x1 $\frac{3}{4}$ -inch. Our special price, \$4.00

Extra Rolls, No. 122..... 1.75

Extra Rolls, No. 770..... 2.00

SUPERIOR WRINGERS

Name	Size of Rolls.	Price.
Superior, No. 210.....	10x1 $\frac{3}{4}$ -inch.....	\$3.25
Superior, No. 212.....	12x1 $\frac{3}{4}$ -inch.....	4.00
CRESCENT —Same as Relief, but cheaper grade rolls.		
No. 130.....	10-inch.....	3.00
No. 132.....	12-inch.....	3.75
STAR —No. 10.....	10x1 $\frac{3}{4}$ -inch.....	2.00
EXTRA ROLLS —		
Superior.....	10-inch.....	1.75
Superior.....	12-inch.....	2.00

NEW NORKA MOWER

Regular.

10 in...	\$3.25
12 in...	3.50
14 in...	3.75
16 in...	4.00
18 in...	4.25

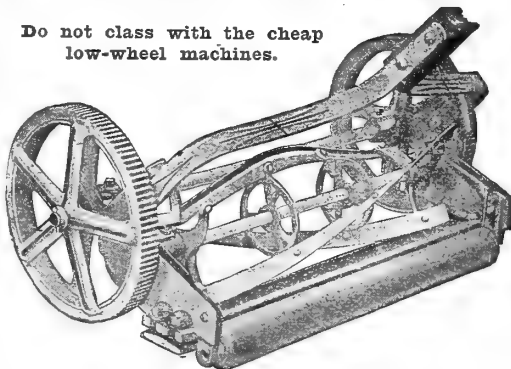
Ball Bearing.

14 in...	\$4.75
16 in...	5.00
18 in...	5.25

9-INCH WHEEL.

Pawl and pinion attachment thoroughly tested; one of the best. Ratchet Clutch, cast solid with pinion; no extra pieces to break or get out of order.

Do not class with the cheap low-wheel machines.



CHICAGO MOWER.

Low priced and good. 12 in., \$2.50. 14 in., \$2.75. 16 in., \$3.00.

"NEW ELECTRIC" MOWER

Wheels 9 inches diameter. Reel 5 3/4 inches diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel Shaft cold rolled Steel, Reel Knives best grade Knife Steel, perfectly ground.

Regular.

12 in...	\$4.50
14 in...	4.75

Ball Bearing.

16 in...	\$5.00
18 in...	5.25

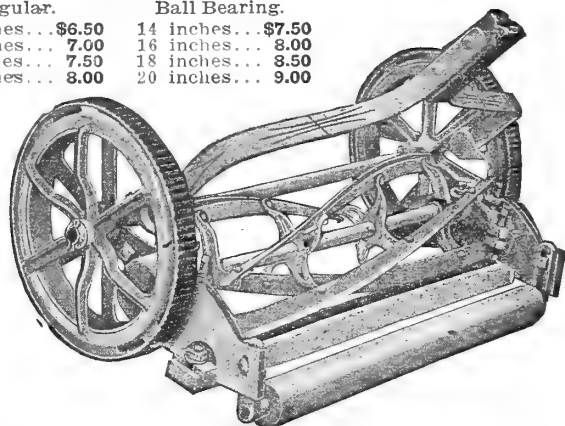
W. & B. JR. LAWN MOWER

Regular.

14 inches...	\$6.50
16 inches...	7.00
18 inches...	7.50
20 inches...	8.00

Ball Bearing.

14 inches...	\$7.50
16 inches...	8.00
18 inches...	8.50
20 inches...	9.00



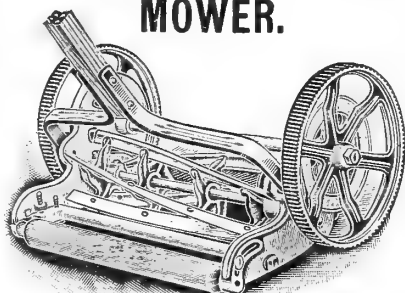
Strictly first-class, high-wheel, adjustable reel Mower. Built very strong; cannot be jarred out of adjustment. Castings have long hubs, through which an 11-16 in. solid steel shaft is passed and secured by set screws.

"DIAMOND" INTERMEDIATE GEAR MOWER.

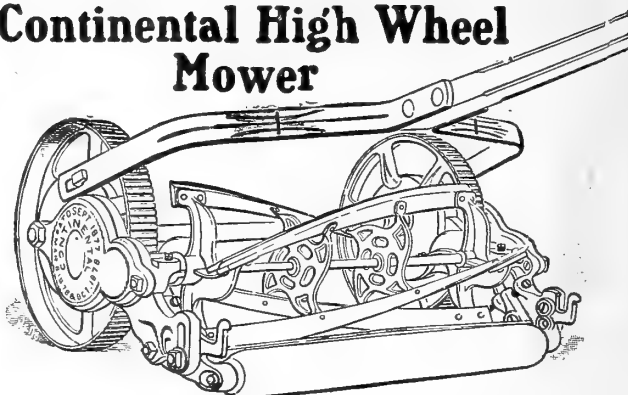
Latest production of Whitman-Barnes Co.; a guarantee of its superiority; has become a favorite, and although on the market a comparatively short time, is now one of our standard machines.

OUR SPECIAL PRICES:

15 inches...	\$10.00
17 inches...	11.00
19 inches...	12.00
21 inches...	13.00



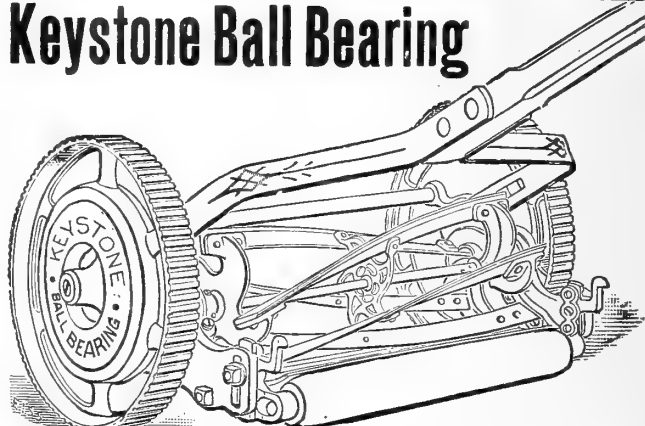
Continental High Wheel Mower



This very high grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

	List	Retail		List	Retail
15 inches...	\$25.00	\$12.50	19 inches...	\$31.00	\$15.50
17 inches...	28.00	14.00	21 inches...	34.00	17.00

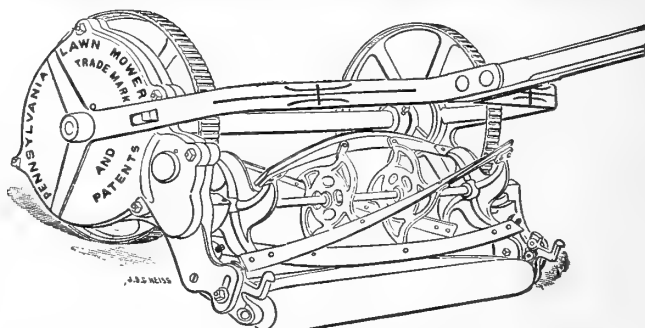
Keystone Ball Bearing



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from 3/8 to 1 1/2 inches from the ground.

	List	Retail		List	Retail
15 inches...	\$25.00	\$10.50	19 inches...	\$31.00	\$13.50
17 inches...	28.00	12.00	21 inches...	34.00	15.00

PENNSYLVANIA HIGH WHEEL MOWER



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10 1/2 inches; cylinder, 6 1/2 inches. Four crucible steel knives.

	List	Retail		List	Retail
15 inches...	\$25.00	\$12.50	19 inches...	\$31.00	\$15.50
17 inches...	28.00	14.00	21 inches...	34.00	17.00

Philadelphia High Wheel, STYLE E

15 inches.....	List price, \$25.00	Retail price, \$9.50
17 inches.....	List price, 28.00	Retail price, 10.50
19 inches.....	List price, 31.00	Retail price, 11.50
21 inches.....	List price, 34.00	Retail price, 12.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LAWN MOWER REPAIRING AND SHARPENING

SEND in your **LAWN MOWERS** early for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request, and if they do not need have to wait while the grass is growing. Look over your machine during the winter (this applies to other kinds of machinery as well as Lawn Mowers), and see what repairs are needed. Do not wait until spring work is crowding you. We employ efficient mechanics to do our machine repairing, and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us, and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.



BALTIMORE HORSE LAWN MOWER

The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjustment of knives; strong and durable; open castor wheels which do not press down the grass; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned.

It is made with shafts and seat, and also with draft rod. For hilly lawns, we recommend shafts and seat, but for level lawns with many trees and shrubbery, we recommend the draft rod, as it enables the driver to work the machine close to them. See it work and you will be convinced that it is the most practical machine made.

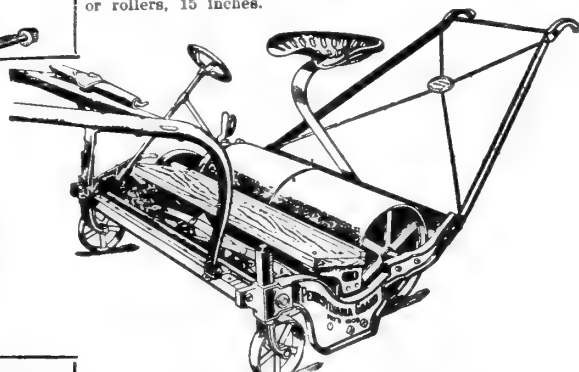
25-inch Machine, with draft rod....Our Special Price, \$42.50	Factory List Price, \$65.00
30-inch Machine, with draft rod....Our Special Price, 63.00	Factory List Price, 100.00
30-inch Machine, shafts and seat....Our Special Price, 68.00	Factory List Price, 110.00
35-inch Machine, shafts and seat....Our Special Price, 80.00	Factory List Price, 135.00
Special Discount for Cash.	

NEW "PENNA. GRAND" HORSE MOWER

The high-grade material and workmanship of this Mower are characteristic of all machines of this make.

The wheel at the right of the driver's seat regulates the height of cut from $\frac{1}{8}$ inch to 2 $\frac{1}{2}$ inches. The operator, without leaving his seat, can instantly change from low to high cut.

Diameter of cylinder, 7 $\frac{1}{2}$ inches. Diameter of drums or rollers, 15 inches.



With Handles and Draft Irons Only.			
	30-inch Cut.	Our Spe'l Price.	Fac. List Price.
4 Knives, shipping wt., 595 lbs....	\$75.00		\$100.00
6 Knives, shipping wt., 605 lbs....	84.00		112.50
	38-inch Cut.	Our Spe'l Price.	Fac. List Price.
4 Knives, shipping wt., 675 lbs....	\$97.50		\$130.00
6 Knives, shipping wt., 705 lbs....	107.00		142.50
Complete with Seat, Shafts, etc.			
	30-inch Cut.	Our Spe'l Price.	Fac. List Price.
4 Knives, shipping wt., 635 lbs....	\$90.00		\$120.00
6 Knives, shipping wt., 645 lbs....	99.00		132.50
	38-inch Cut.	Our Spe'l Price.	Fac. List Price.
4 Knives, shipping wt., 720 lbs....	\$112.50		\$150.00
6 Knives, shipping wt., 750 lbs....	122.00		162.50

We Sharpen Mowers Golf Roller Mower

Peculiarly adapted for use on Golf and Tennis Grounds.

The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth-cut surface on the lawn. The adjustments are simple and the durability beyond question.



	Factory List Price.	Our Special Price.
10-inch, 4 blades.....	\$13.00	\$9.10
12-inch, 4 blades.....	15.00	10.50
14-inch, 4 blades.....	17.00	12.00
16-inch, 4 blades.....	19.00	13.00
18-inch, 4 blades.....	21.00	15.00
20-inch, 4 blades.....	23.00	16.00
For 6 blades, add to Factory List Price \$1.00.		
For Retail, add 70c.		

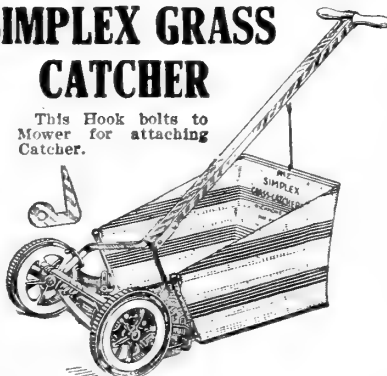
Phila. Eagle Horse Mower

The latest production of the Philadelphia Lawn Mower Co. In horse mowers, and, in our opinion, one of the best machines they ever produced.

30-inch, with seat and shafts and draft pole.	Factory list price, \$100.00. Retail price, \$75.00.
35-inch, with seat and shafts and draft pole.	Factory list price, \$125.00. Retail price, \$95.00.
40-inch, with seat and shafts and draft pole.	Factory list price, \$150.00. Retail price, \$112.50.

SIMPLEX GRASS CATCHER

This Hook bolts to Mower for attaching Catcher.



No. 1—For 12, 14, 16-in.....	\$.85
No. 2—For 16, 18, 20-in.....	1.00

Will fit any mower made; instantly attached and detached; canvas body; galvanized iron bottom; combining strength with lightness.

Penna. Regular Horse Mower

Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

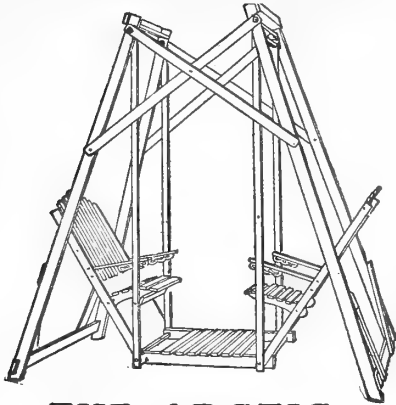
30-inch—Factory list price, \$100.00. Our special price, \$70.00.	
38-inch—Factory list price, \$130.00. Our special price, \$91.00.	
30-inch—Weight, 358 lbs.; 4 knives.	
38-inch—Weight, 400 lbs.; 4 knives.	
For shafts, seat and footboard, add Factory list price, \$20.00; Our special price, \$14.00.	

“LINK’S LAWN” BOOT

Fastened firmly to hoof instead of around ankle, thus giving free action to horse's feet, obviating all possibility of chafing. Process of hardening, water - proofing and steel-riveting sole inside and out gives a durability never before obtained. Rolling toe prevents cutting of turf. Width inside, No. 2, 5 $\frac{1}{2}$ inches; No. 4, 6 $\frac{1}{2}$ inches; No. 6, 7 inches—the right sizes for Nos. 2, 4 and 6 horseshoes. No. 0 Mule and No. 1 Pony. Special sizes to order. Width inside, 4 inches; 4 $\frac{1}{2}$ inches. Factory list price, \$16.00. Our special price, per set, \$9.00.



LAWN SWINGS



THE ARCTIC

Selected stock, very strong. Chairs have three adjustments. Foot-rest can be raised level with seats to form hammock. Can adapt height of seats for children. Two and four passengers.

	List Price.	Our Spec'l Price.
Two-passenger	\$11.50	\$7.00
Four-passenger	15.50	9.00

SLUMBERINE SWING

Two and four-passenger; built of hardwood.

	List Price.	Our Spec'l Price.
Two-passenger	\$10.00	\$6.00
Four-passenger	13.00	8.00

We carry cheap swings. Prices on application.

ARCTIC SWINGING CHAIR

The Latest Design for a Swinging Chair Yet Produced.

Occupies a space about six feet long by three feet wide and about six feet high. Made of the most substantial material, best dry hardwood and steel arms and braces, and of steel tubing. Provided with footrest, adjustable for children or adults.

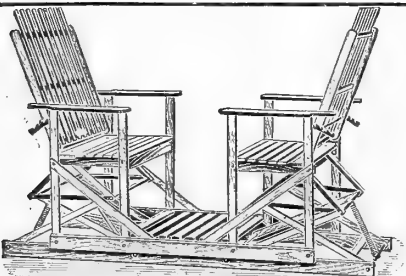
List Price.....	\$6.50
Our Special Price.....	4.00

THE BONANZA



Made of hardwood with bolted frame. Has three seat and footrest adjustments. Frame painted red; balance of the swing, golden oak finish, and will not stick to clothes. Has malleable hooks where swing bars hang on iron rods at top of frame.

	List Price.	Our Spec'l Price.
Two-passenger	\$8.00	\$5.00
Four-passenger	10.00	6.50



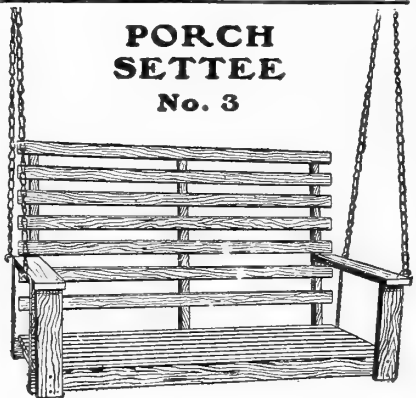
MISSION PORCH SETTEE **No. 1**



1 1/4-inch oak stock, very strong and substantial, mission effect, smooth and well finished, saddle seat. Put together with rods and bolts. Ceiling hooks and galvanized chains with each settee. Enough slant in back to make it most desirable and comfortable.

	List Price.	Our Spec'l Price.
4-foot	\$11.00	\$6.75
5-foot	14.00	8.50
6-foot	17.00	10.50

PORCH SETTEE **No. 3**



Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets. Can be furnished in 4, 5 and 6-foot lengths.

	List Price.	Our Spec'l Price.
4-foot	\$7.00	\$4.25
5-foot	8.50	5.00
6-foot	10.00	6.00

LAWN SETTEE 36 inches



High back, easy rest. Finished in golden oak or painted red. Heavy slats are used in these settees; nothing cheap about them. Have the right shape for solid comfort. The best low-priced settee on the market. Can be folded flat when put away for the winter.

	List Price.	Our Spec'l Price.
Golden Oak, each.....	\$1.60	\$1.00
Painted Red, each.....	1.70	1.10

PORCH CHAIR

Has 4 adjustments, and back can be let down to almost horizontal position. Substantially made and finished in Golden Oak. Perfectly suitable for the house as well as porch or lawn.

List Price, each,
\$1.70. Our
Special Price,
each, \$1.10.



Baltimore Lawn Settees

Attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc. Painted bright red and varnished.

	List Price.	Our Spec'l Price.
Four feet	\$5.50	\$3.50
Five feet	6.80	4.25

"E-Z" GLIDER SETTEE, 4 PASSENGER

Perfectly Level Glide. No Up and Down Motion. Practically Noiseless. Simple in Construction. Easiest in Operation. Quietest in Movement. Roomiest While Occupying the Least Space. For the Lawn, Porch, Summer Resort, Club-Room, Rest-Room, Etc. Furnished With or Without Canopy.

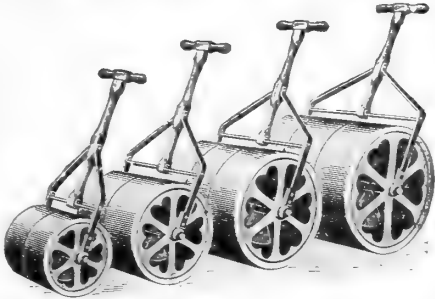
Perfection obtained in simplicity of construction, ease of operation, and movement. Extreme length of base, 6 ft. 10 in.; swing operates inside length of base. Extreme width of swing, 3 ft. 4 in.; width of seats, 2 ft. 8 in.; depth of seats, 17 in. Hardwood construction and finished weathered oak. Finish that clothes won't stick to.

List, each, \$18.00; Our Special Price, \$11.00.
Canopy extra, List, each, \$8.00; Our Special Price, \$5.00.

Hand Lawn Roller

CAST IRON.

These rollers are especially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counterbalance, which holds up the handle and makes it easy to push.



We can furnish the above rollers to weigh 50, 100 or 150 pounds more than the weights given, for which add 4c. per lb.

No.	No. Sec.	Width Face.	Diam. Sec.	Total Length.	Weight.	Factory List Price.	Our Special Price.
4	2	10 in.	20 in.	20 in.	250 lbs.	\$15.50	\$12.50
6	3	8 in.	20 in.	24 in.	300 lbs.	18.50	15.00
9	2	10 in.	24 in.	20 in.	400 lbs.	24.50	20.00
11	3	8 in.	24 in.	24 in.	450 lbs.	27.50	22.50

The Water Ballast Lawn and Garden Roller

Only a moment's time required to obtain any weight from 115 pounds to 1 1/2 ton.

Drum barrel is carbon 12-gauge sheet steel, cold pressed heads, drum ends of same thickness; heads are boiler riveted on to drum face plate, and whole interior of drum treated with an anti-rust preparation.

Entrance for weighing material provided for by 3/4 in. hole drilled through one of cast shoulder hubs.

To weight machine, turn on end, remove pipe plug, insert garden hose or use pail and funnel, fill drum to any desired weight, weight applied directly to point of contact where it is most needed.



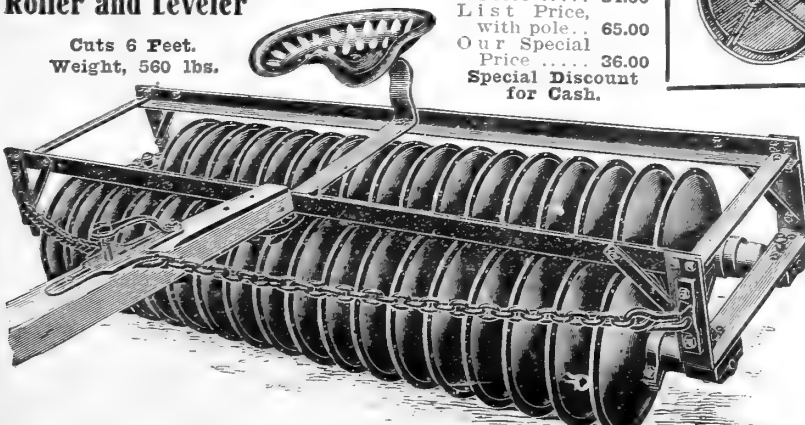
Order No.	Diam. of Drum.	Length of Drum.	Wt. of Tool Empty.	Wt. Filled With Water.	Wt. Filled With Sand.	Factory List Price.	Our Special Price.
2424	24 in.	24 in.	115 lbs.	470 lbs.	737 lbs.	\$17.00	\$12.75
2430	24 in.	30 in.	132 lbs.	594 lbs.	945 lbs.	19.00	14.25

CONCRETE COMPOSITION STONE LAWN AND GARDEN ROLLER

Number.	Diam., Inches.	Length, Inches.	Sec. tions.	Wt., Lbs.	Price.
1	10	10	1	50	\$2.50
2	12	12	1	100	3.50
3	15	15	1	200	6.00
4	20	15	1	300	9.50
5	20	30	1	600	20.00

Gritco Pulverizer, Clod Crusher, Roller and Leveler

Cuts 6 Feet.
Weight, 560 lbs.

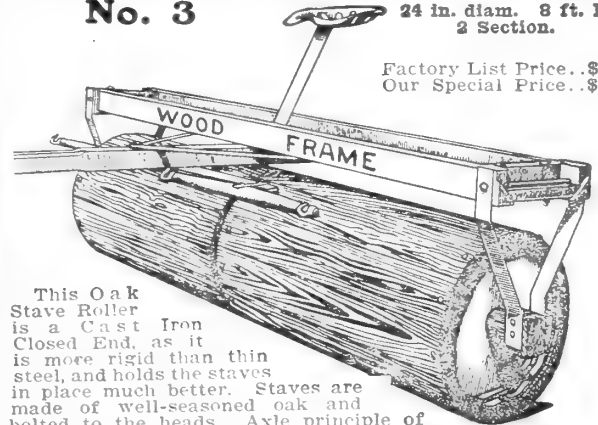


List Price, without pole \$60.00
Our Special Price 34.00
List Price, with pole 65.00
Our Special Price 36.00
Special Discount for Cash.

Gritco Wood Stave Land Roller No. 3

24 in. diam. 8 ft. long.
2 Section.

Factory List Price. . \$37.00
Our Special Price. . \$22.00



This Oak Stave Roller is a Cast Iron Closed End, as it is more rigid than thin steel, and holds the staves in place much better. Staves are made of well-seasoned oak and bolted to the heads. Axle principle of Steel Rollers described below is same on this Roller.

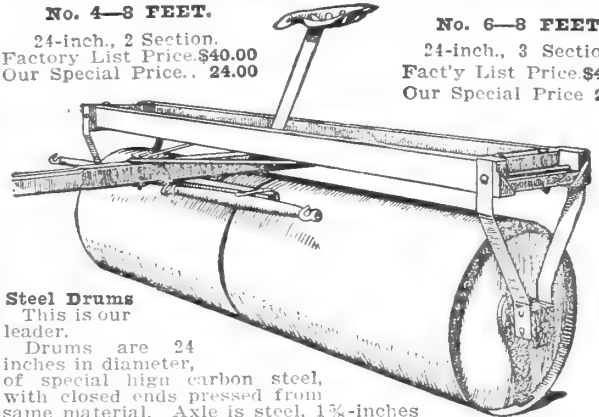
Gritco Steel Land Roller

No. 4—8 FEET.

24-inch., 2 Section.
Factory List Price. \$40.00
Our Special Price. . 24.00

No. 6—8 FEET.

24-inch., 3 Section.
Factory List Price \$44.00
Our Special Price 26.00



Steel Drums
This is our leader.

Drums are 24 inches in diameter, of special high carbon steel, with closed ends pressed from same material. Axle is steel, 1 3/4-inches diameter, and passes entirely through drums from one hanger to other, and is set-screwed to one drum, so it can only revolve in wooden bearings which are secured to end hangers. Cast iron sand collars keep bearings free from dust and prevent hangers from spreading at bottom.

One-Horse Lawn Roller



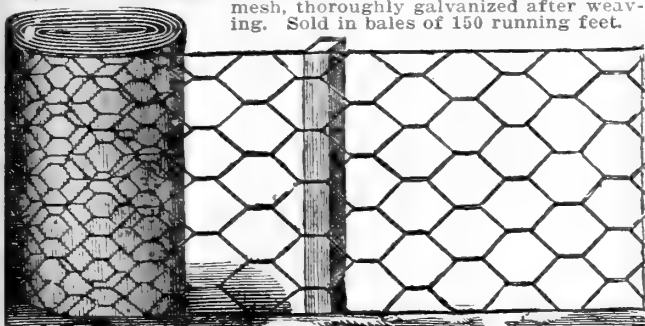
Nos. 16 and 17. No. 16 (see cut) has 24-in. steel rim, 4 feet, one section, one-horse; wt. 375 lbs. No. 17 has 26-in. steel rim, 4 ft., 2 sections, one-horse; wt. 425 lbs.
One-Section, 4 ft.—Factory Price, \$30.00; Special Price, \$18.00.
Two-Section, 4 ft.—Factory Price, \$32.00; Special Price, \$20.00.

Gritco Pulverizer, Clod Crusher, Roller and Leveler

Composed of two sets of hollow-disk rollers which turn upon revolving axis, one being placed directly behind, thereby covering every inch of ground and effectually pulverizing hardest clods, at same time subjecting ground to a pressure and packing soil couple of inches below surface, enabling it to retain moisture; at same time leaving surface loose, mellow and level for reception of seed. Most pulverizers tear up soil and leave it too loose to retain moisture, or allow roots to obtain a firm hold, while others, in their attempt to pack soil, will press clods beneath surface, thereby leaving it in an undesirable condition for reception of seed, and if a harrow is put over the field again all clods come to surface and field is as rough as ever.

Diamond Mesh Poultry Netting

The wire we offer is all Nos. 19 and 20, double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.



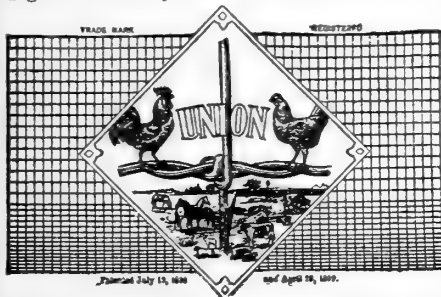
No.	In. Wide.	Sq. Feet.	List Price Per Bale	Retail Price Per Bale	No.	In. Wide.	Sq. Feet.	List Price Per Bale	Retail Price Per Bale
19	12	150	\$3.75	\$ 1.15	20	12	150	\$3.37	\$ 1.70
19	18	225	5.62	1.15	20	18	225	5.07	1.05
19	24	300	7.50	1.50	20	24	300	6.75	1.35
19	36	450	11.25	2.25	20	36	450	10.12	2.05
19	48	600	15.00	3.00	20	48	600	13.50	2.70
19	60	750	18.75	3.75	20	60	750	16.67	3.40
19	72	900	22.50	4.50	20	72	900	20.25	4.05

Price 1c. per square foot in less than bale lots. Staples for fastening, 10c. per pound. We also carry in stock a few sizes of 1-inch mesh, as follows:

No.	In. Wide.	Sq. Feet.	List Price Per Bale	Retail Price Per Bale
20	24	300	\$16.50	\$1.50
20	36	450	24.75	5.00
20	48	600	33.00	6.75

Union Lock Poultry Fence

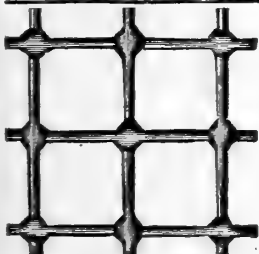
The economy, adjustability and effectiveness of this fence is unexcelled. It requires no bottom or top rail, as it can be stretched up in good shape without them. On account of its construction, Union Lock Fence will stretch up over uneven ground without cutting and requires about one-half the number of posts that the ordinary poultry netting does. This is a great economy. Strand wires are two No. 29 wires twisted together and pickets are made of No. 19 wire, all galvanized.



Pickets are only 3 inches apart and the seven meshes next to the bottom are only 1 1/4 inches between the strand wires, making a very close fence. It is just the thing for little chicks, as the mesh at the bottom is only 1 1/4 in. by 3 in.

	List Per Roll	Retail Per Roll	Retail When Cut
10-rod rolls, 165 ft., 24 in. wide..	\$5.60	\$2.55	2 1/4 c. per run'g ft.
10-rod rolls, 165 ft., 36 in. wide..	6.90	3.15	2 3/4 c. per run'g ft.
10-rod rolls, 165 ft., 48 in. wide..	8.30	3.75	3 1/2 c. per run'g ft.
10-rod rolls, 165 ft., 60 in. wide..	9.60	4.35	4c. per run'g ft.
10-rod rolls, 165 ft., 72 in. wide..	10.80	5.00	4 1/2 c. per run'g ft.
10-rod rolls, 165 ft., 84 in. wide..	12.30	5.60	5 1/4 c. per run'g ft.

In comparing prices with ordinary poultry netting, remember these bales are 15 feet longer.



Galvanized Steel Wire Cloth

Used largely in corn-cribs to make them rat-proof; also for making sieves, grain fan screens, etc. Widths 24 to 48 inches.

2x2—3x3 mesh, sq. ft., 4c.; full rolls, 3 1/2 c. sq. ft.; 4x4 mesh, sq. ft., 4 1/2 c.; full rolls, 4c. sq. ft.

The word mesh means number of meshes to the inch. (2x2 mesh, 2 to the inch; 4x4 mesh, 4 to the inch, etc.)

Special price in roll lots, 100 feet or more.

BARB WIRE—We have 2 point 5-inch Barb Wire and 4-point 4-inch Barb Wire. Prices on application.

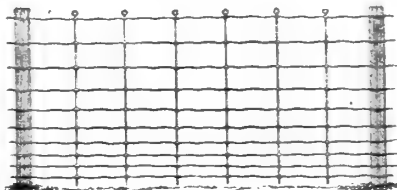
Ribbon Wire, Twisted Two-Strand Wire, Plain

Galvanized and Annealed Wire, Panel Wire

PRICES ON APPLICATION

FROST WIRE FENCE

A Stay Fence of great merit. The strands are of heavy coiled spring wire and the stays are of hard wire. It can be easily and quickly erected, and is a very strong and durable fence.



The most popular Frost Fence combination is No. 9 coiled spring strand wire, and No. 7 stays spaced 5 to the rod. We give prices of a few styles as follows:

No. 55—5 Strand Fence with 3 -ft. stays.....	30c. per rod.
No. 65—6 Strand Fence with 3 1/2 -ft. stays.....	36c. per rod.
No. 75—7 Strand Fence with 3 3/4 -ft. stays.....	41c. per rod.
No. 85—8 Strand Fence with 4 -ft. stays.....	47c. per rod.
No. 95—9 Strand Fence with 4 1/4 -ft. stays.....	52c. per rod.
No. 105—10 Strand Fence with 4 1/2 -ft. stays.....	57c. per rod.
No. 115—11 Strand Fence with 4 3/4 -ft. stays.....	62c. per rod.
No. 125—12 Strand Fence with 5 -ft. stays.....	68c. per rod.

All of the above have No. 9 strand wire and No. 7 stays, 5 to the rod.

Special Catalogue on Application.

Truss and Cable Fence



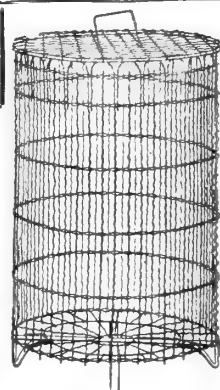
Made of superior galvanized wire with no short, sharp twists. Attractive and economical; made of No. 13 and No. 14 wire, and weighs about two pounds to the rod. Price, 5 1/2 c. per lb.

IF INTERESTED IN ANY KIND OF WIRE FENCE OR ANY KIND OF WIRE GOODS NOT SHOWN IN THIS CATALOGUE, WRITE US.

Cyclone Consumer

This consumer burns waste paper and all combustible material without scattering dirt or litter. A neat and artistic waste-paper basket.

	List.	Retail.
No. 1—20-inch diameter, 30-inch high.....	\$3.00	\$2.40
No. 2—17-inch diameter, 25-inch high.....	2.00	1.60
No. 3—14-inch diameter, 21-inch high.....	1.80	1.44
No. 4—12-inch diameter, 18-inch high.....	1.50	1.20



G. & T. CO.'S WOVEN WIRE STRETCHER

The best Stretcher on the market for erecting Pittsburgh Perfect and other wire fences. A Stretcher of this kind enables one to put the fence up in much better shape. It not only looks better, but will make the fence last longer.

List Price, \$6.00. Our Special Price, \$5.00.

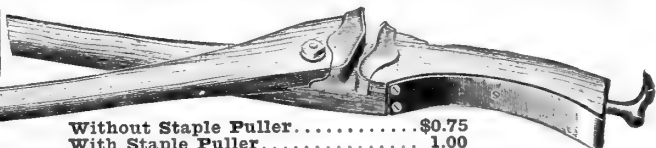


Price, 75c.

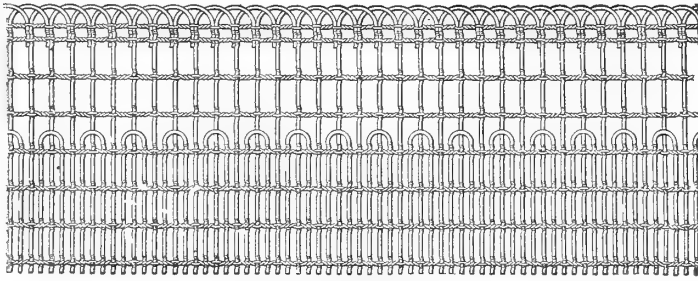
No. 1.

Wire Stretcher

NEVER SLIP STRETCHER



Without Staple Puller.....\$0.75
With Staple Puller.....1.00



STYLE C FENCE.

Style C is the same as Style B, except that at the bottom extra uprights are interwoven, making a spacing of 1½ inches, which is very effective for turning chickens, etc.

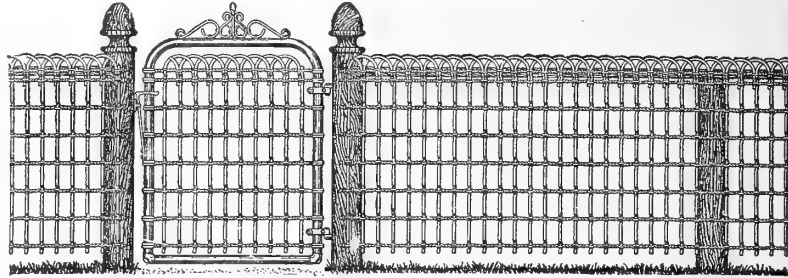
Prices per Foot.

	List Price.	Our Price.
36-inch, Style B.....	18c.	13c.
36-inch, Style C.....	22c.	16c.
42-inch, Style B.....	19c.	14c.
42-inch, Style C.....	24c.	17c.

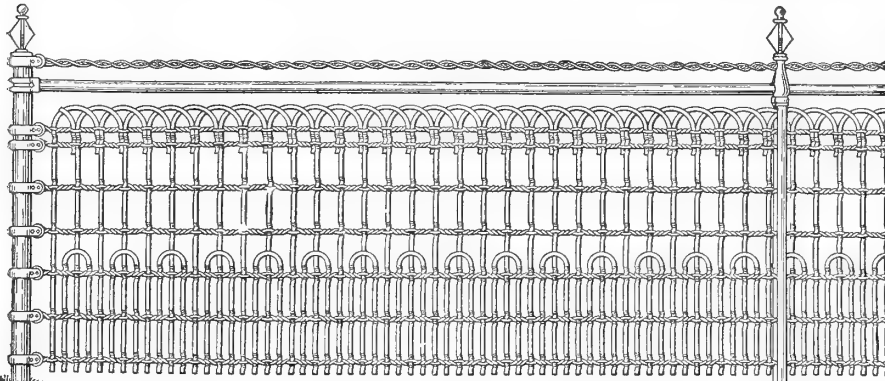
Write for special circular and prices on other heights.

REPUBLIC COMPLETE FENCE.

We are prepared to quote prices on either style Republic Fence complete, including fabric, posts, rail and top braid with whatever gates may be needed. (See cut below). A diagram of the ground to be enclosed will help us in making quotations on complete fence.



STYLE B FENCE ON WOOD POSTS.



STYLE C FENCE ON STEEL POSTS WITH BRAIDED TOP.

Republic Ornamental Lawn Fence

Republic Fence is made in Style B and Style C as illustrated. The spacing and size of wires explain its popularity. By a special weave the twist of the cable is reversed at each upright, so that they will hold the tension better than those fences with twist of cables reversed between the uprights. The uprights are No. 9 galvanized wire, spaced three inches apart, corrugated where they pass through cables to prevent slipping. Republic Fence will hold its shape. Cables are made of two No. 12½ wires, spaced about six inches apart, except two top cables which are spaced two and a half inches. Regularly put up in rolls containing 165 feet, but can be cut to suit the requirements of customers.

Republic ORNAMENTAL Gates

The cut above shows the Republic Ornamental Walk Gate. Tubular steel frames with wrought scroll and malleable hinges and latches. Sent for wood posts unless otherwise specified. Always state whether gates are wanted with Style B or Style C covering.

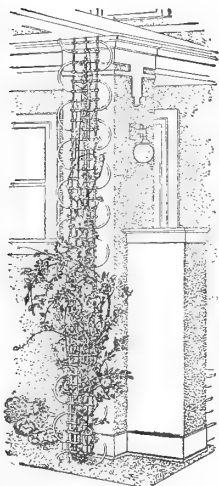
Prices Republic Ornamental Gate

Either 36 in., 42 in. or 48 in. high.

	List Price.	Our Price.
For 3-ft. opening.....	\$5.00	\$3.50
For 3½-ft. opening.....	5.50	3.85
For 4-ft. opening.....	6.00	4.20

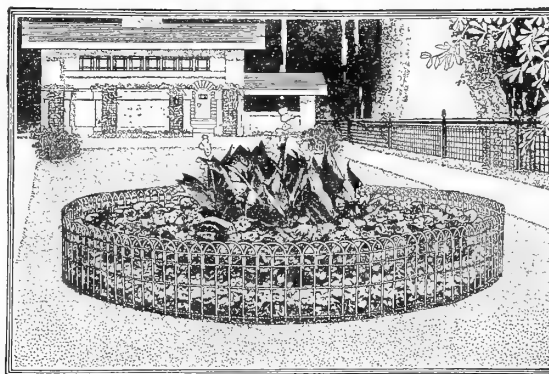
Ten-foot Drive Gate, 36 in., 42 in. or 48 in. high. List Price, \$12.00. Our price, \$8.40.

Ideal Trellis



Ornamental, durable, reasonable in price. Fills a long felt want for climbing vines and flowers. Easily put up. Holds its shape. Curved wires No. 9. Cables two No. 13 galvanized wires, 18 inches wide. List price, per foot, 9c. Our special price, 7c.

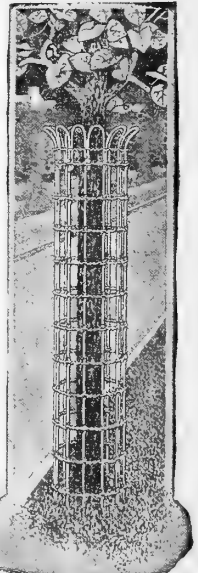
Republic Flower Bed and Lawn Guard



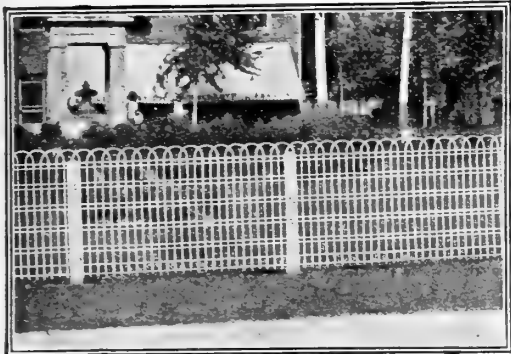
For flower-beds, lawns and grave lots. Self-supporting, no posts required. Uprights No. 9 and cables No. 13 galvanized wire. Height, 18 inches. List, 12c. per foot. Our Price, 10c.

Republic Tree Guards

Five-foot high; made of heavy galvanized wire, 9, 12 and 15 in. in diameter. Furnished with spiral springs to pass around the tree to prevent bruising or rubbing off the bark. Nine-inch, List price, \$1.50; Our price, \$1.25. Twelve-inch, List price, \$1.75; Our price, \$1.40. Fifteen-inch, List price, \$2.00; Our price, \$1.60.

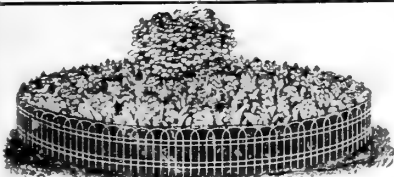


ACME LAWN FENCE



A crimped picket lawn fence which is very popular with our trade. Made of No. 9 High Carbon Steel Wire throughout. The wire is galvanized and the whole fence is covered with white enamel paint, giving double protection against rust. It is closely woven, the pickets being only 2½ inches apart; a special closer woven Acme Fence can be furnished where required. Acme Lawn Fence is not only ornamental, but is strong and effective. Acme Fence is made in different heights, from 24 inches to 72 inches, the most popular height being the 36-inch and the 42-inch, which we price below. Prices on other heights quoted on application. Send for special booklet giving full description of Acme Fence.

36-in. high, List price, per ft., 18c. Our Special Price, 14c.
42-in. high, List price, per ft., 20c. Our Special Price, 16c.



Acme Flower Bed Guard

This is 18 inches high. Every sixth upright projects into the ground 6 inches. Price, per foot, 10c.

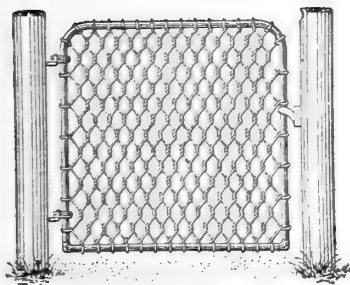
ACME LAWN GATES

Width of Gate, including Hinges and Latch, being exact distance posts should be set apart.

	3 ft.	3½ ft.	4 ft.
36 inches.....	\$3.00	\$3.25	\$3.50
42 inches.....	3.25	3.50	3.75

Prices of double gates same as that of two single gates.

ECLIPSE GATES



THE ECLIPSE WALK GATES are built of high grade material in a substantial manner and are covered with a diamond mesh fabric, tightly woven of galvanized wire. The character of the fabric is such that each wire acts as a truss, thoroughly bracing the gate on all sides and making it sag-proof. The gates are furnished complete with hinges and catch, and these gates meet the demand for a thoroughly good gate at a low price.

Price List of Eclipse Walk Gates.

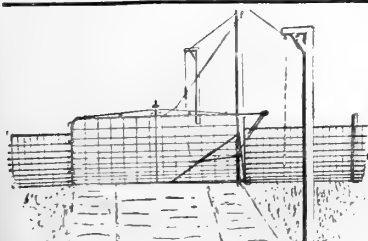
Height.	Width of Opening.	List Price.	Our Special Price.
36 or 42 in.	3 feet	\$3.25	\$2.60
48 or 54 in.	3 feet	3.50	2.80
36 or 42 in.	3½ feet	3.75	3.00
48 or 54 in.	3½ feet	4.00	3.20
36 or 42 in.	4 feet	4.00	3.20
48 or 54 in.	4 feet	4.25	3.40

Can also furnish Drive Gates of this style. Prices on application.

The New "Century" Automatic Gate

The most successful gate on the market. Unique in principle, easy to operate and free from springs and intricate devices. Locks automatically when closed. Eleven feet wide. Price, \$12.50.

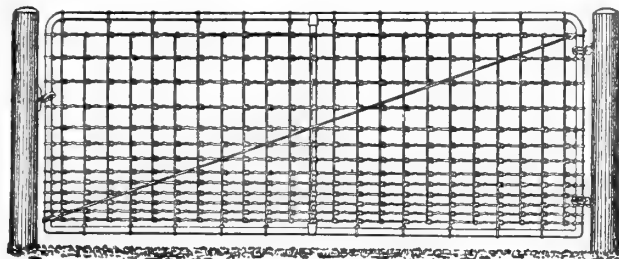
Send for Special Catalogue.



ACME FARM GATES

Some of the strong features embodied in Republic Gates are here noted—High-Carbon, Tubular-Steel Frames; High-Grade, Malleable and Wrought-Iron Fittings; Heavy Galvanized Wire Fabric, Closely Woven; Adjustable Truss Rod; Solid Square Corners.

The more you investigate and compare both quality and price, the more convinced you will be that Republic Gates will give you more for your money than any other gate on the market.



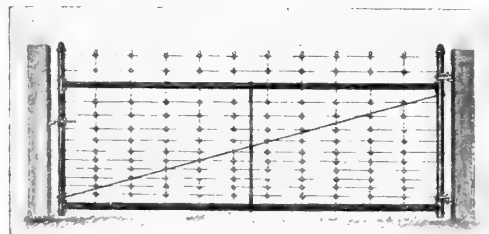
The square bottom corners on all Republic Gates leave no holes for pigs and small stock to get through as do round-cornered gates. All gates are shipped complete with hinges, latches and everything necessary to hang to post. If our listed sizes do not meet requirements we will make to order, charging for such special gates the price of our next larger listed size. All gates are made to fit openings as listed. We make proper allowance for space required for hinges and latches. Frames of Acme Gates are 1½-inch diameter, high-carbon, brazed seam, tubular steel.

Price List Acme Single Drive Gates.

Height.	Width of Opening.	List Price.	Our Special Price.
48 or 54 in.	8 feet	\$8.00	\$6.40
48 or 54 in.	10 feet	8.50	6.80
48 or 54 in.	12 feet	9.25	7.40
48 or 54 in.	14 feet	9.75	7.80

Farm and Railroad Gate No. 23

Frame 1½ inches diameter, acorn tops, adjustable malleable hinges, heavy screw hooks to hang on wooden posts, hook catch, steel diagonal brace rod support. All wire work passes through the frame both ways. This gate is extra strong.



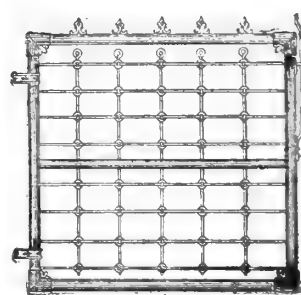
	List Price.	Retail Price.
No. 23—12 feet wide, 4½ feet high, each..	\$9.00	\$7.00
No. 23—14 feet wide, 4½ feet high, each..	10.00	8.00
No. 23—12 feet wide, 5 feet high, each..	10.00	7.50
No. 23—14 feet wide, 5 feet high, each..	11.00	8.50

Add 4 inches to sizes of gates for allowances for Hinges and Latches.

Ornamental Top Gate No. 12

Frame 1½ inches. Wire work 4x5 mesh, square corners, malleable hinges and latch. Hinges for wood posts regularly sent, though hinges for iron posts can be furnished. In setting posts, allow four inches for hinges and latch.

Width.	Height.	List Price.	Special Price.
3 ft.	3 ft.	\$5.20	\$4.50
3½ ft.	3½ ft.	6.25	5.50



"AMATITE" ROOFING

Amatite is even more than ready to lay; it is all but laid. It is heavily coated and mineral surfaced at time of manufacture. After simply nailing in place on the roof, it needs no painting—in fact, no care or attention of any kind for years. It is made of roofing materials that have been time-tried and tested in every climate and under all conditions.

No painting, no repairs, no tinkering, no care or attention of any kind for a long time. A fire retardant; requires no skilled mechanic to lay it. Rolls 32 inches wide; 110 square feet, sufficient to cover 100 square feet of roof, allowing 3-inch laps. Cement and nails packed with each roll. Price, per roll, \$2.00; five rolls, \$9.50; ten rolls, \$18.00.

GRITCO ROOFING PAPER

2-ply Gritco Roofing, per roll of 108 square feet.....	\$.65
3-ply Gritco Roofing, per roll of 108 square feet.....	.90
D. & C. Asphalt Rubber Paint for Coating, in 1 and 2-gal. cans (1 gal. covers 300 square feet of surface), per gal.....	.60
D. & C. Coal Tar Pitch, in 70-lb. kegs, per keg.....	\$1.50
Roofing Nails and Caps (about one pound each per roll), per pound.....	.06



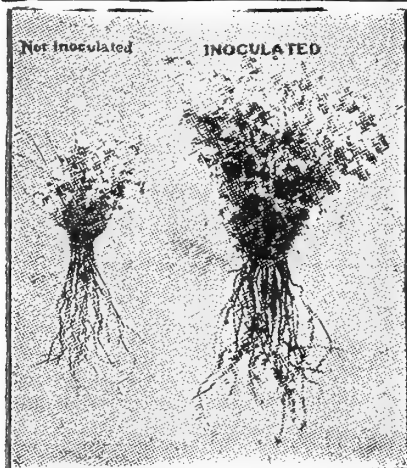
A wool felt saturated with natural Trinidad Asphalt; will not dry out and become brittle when exposed to the weather as roofings do; manufactured from coal tar materials.

Rolls are 32 inches wide; each roll contains 108 square feet.

Special nails and cement are furnished free with every roll.

Per roll, \$2.10; 5 rolls, \$10.00.

Special Price in Larger Quantities.



ALFALFA LIKES FARMOGERM.

It is prepared for the following legumes: White Clover, Red Clover, Crimson Clover, Alfalfa, Alsike, Berseem, Garden Peas, Cow Peas, Canadian Field Peas, Sweet Peas, Lupins, Vetch, Garden Beans, Soy Beans and other Legumes.

"REGAL" ROOFING

Does not dry out and crack. This is due to the peculiar asphalt used in the saturation of the body felt, which is softer than the outer coating and which gradually gives up its oils and thus continually renews the coating. Regal Roofing is composed of natural asphalts (genuine Trinidad Lake Asphalt being its base), properly processed and combined so as to withstand oxygen, sunlight, acids, wind, rain, snow, heat and cold. It is highly fire-resisting. Each roll contains 108 square feet, allowing 8 square feet for laps and flashings; also Nails and Liquid Cement, all packed complete in a single package.

½-ply, per roll, 100 square feet.....	\$1.40
1-ply, per roll, 100 square feet.....	1.60
2-ply, per roll, 100 square feet.....	2.00
3-ply, per roll, 100 square feet.....	2.25

Special price in large quantities.

We have a cheaper grade of rubber roofing in all above sizes. Prices on application.

REGAL BLACK, ROOF COATING

It is made from the best grade of hard asphalt known, melted, specially treated and combined with pure linseed oil, which is kettle boiled and carefully prepared under special formulas. When dry this coating forms a tough, elastic and impervious surface, not affected by contraction or expansion. It has a high gloss and is durable. Will not run; can be applied on tin or any of the various composition roofings. Price, per gallon, 60c. Special prices in large quantities.



The Great Fertilizing Sensation FARMOGERM High-Bred Nitrogen-Gathering Bacteria "Makes Poor Soil Good Soil."

Farmers' Bulletin, dated January, 1908, of Department of Agriculture, states:

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enable the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating the germs is resorted to, the crop will be a failure."

Bacteria produce nodules on the roots of legumes, such as peas, beans, clovers, etc. The nodules are 8 per cent. pure nitrates.

Bacteria make nodules. Nodules mean Nitrates. Nitrates mean big crops. All ready to use simply by moistening the seeds before planting.

Thirty Dollars' worth of Nitrates for \$2.00.

William Hanna Thompson, M.D., LL.D., in "Everybody's Magazine," says: "The results reported by numerous farmers show from fifty to one hundred per cent. increase in yield of inoculated seeds over seeds without such preparation."

Raise biggest and best crop of peas, beans, sweet peas or alfalfa you ever had.

Improve your land by the use of Farmogerm High-Bred Bacteria, which adds nitrogen to the soil for future crops.

Why go to the saltpeter beds of Chili for Nitrates at \$50 per ton when we can get them from the air at an expense of \$2 per acre by using Farmogerm?

Dr. H. E. Stockbridge, in "The Southern Ruralist" of September 15, 1909, says: "On all lands where alfalfa has never grown inoculation is profitable. The use of Farmogerm is the most convenient and satisfactory method."

If you use Farmogerm it is absolutely unnecessary to use any fertilizer that contains nitrogen or ammonia, thereby saving a large amount of money and labor.

Endorsed by:

Prof. Jacob G. Lipman, Soil Chemist, N. J. Agri. Exp. Stat., New Brunswick, N. J.

E. B. Fred, Asst. Bacteriologist, Va. Agri. Exp. Sta., Blacksburg, Va.

Maurice Mulvania, Bacteriologist, Univ. of Tennessee, Knoxville, Tenn.

Edward R. Minns, Instructor, Cornell Univ., Ithaca, N. Y.

G. C. Sevey, Editor "New England Homestead," Springfield, Mass.

FARMOGERM GUARANTEE.

THE GROWERS GUARANTEE Farmogerm to be a pure culture of active, vigorous, nitrogen-gathering bacteria of the variety indicated by the label; that the bacteria are high-bred, that is, bred up to a high point of nitrogen-gathering ability, on a like principle, and by similar methods as cows are bred up to a large milk yield, or horses to a high speed capacity; and that each bottle of Farmogerm contains these strong, active bacteria in sufficient quantity to inoculate the amount of seed or soil specified on the label.

Garden Pkge., 50c. 1-Acre Pkge., \$2.00. 5-Acre Pkge., \$9.00.

Send for pamphlet giving full particulars, showing how and why Farmogerm produces big crops and MAKES POOR SOIL GOOD SOIL. It is FREE.

Before using Farmogerm, test soil to see if lime is needed, as best results cannot be obtained if soil lacks lime.

"FARMERS' CYCLOPEDIA OF LIVE STOCK."

A compendium of the science, economics and practice of stock raising, dairying and poultry farming, comprising the origin, anatomy, physiology, breeding, feeding, diseases, management, marketing and slaughtering of farm stock and the utilization of animal products. Many superb illustrations. A very valuable reference book. By Earley Vernon Wilcox, Ph.D., Clarence Beaman Smith, M.S. Color plates and illustrations. Cloth, handsome and durable, gold stamping. \$4.50
Half Morocco, with cloth sides and leather corners, very sumptuous. \$5.50

AGRICULTURE AND FARMING.

Farmers' Cyclopaedia of Agriculture. By Messrs. Wilcox and Smith. Experiment Station Editors in U. S. Dept. of Agriculture. 6000 topics. 700 pages. 500 illustrations. Cloth bound. \$3.50
Half Morocco. 4.50
A B C of Agriculture. A valuable work for all interested in farming and gardening. Illustrated. 66 pages. 5x7 inches. Cloth. .50
The Book of Alfalfa. F. D. Coburn. This is by far the most authoritative, complete and valuable work on this forage crop ever published. 2.00
Alfalfa. By F. D. Coburn. Its growth, use and feeding value. .50
Book of Wheat (new). By F. T. Dondlinger. A complete study of everything pertaining to wheat. New, authoritative and up-to-date. 2.00
Broom Corn and Brooms. By Editors of "American Agriculturist." Raising broom corn and making brooms on large or small scale. .50
Clovers and How to Grow Them. By Thos. Shaw. The only book published which treats on the growth, cultivation and treatment of clovers in all parts of the U. S. and Canada. 1.00
The Book of Corn. By Herbert Myrick, assisted by specialists. A complete treatise upon the culture, uses and marketing of maize. 1.50
Forage and Fiber Crops in America. By Thos. F. Hunt. Treating fully timothy, Kentucky blue grass, red clover, alfalfa, cowpeas, cotton, etc. 1.75
Forage Plants Other Than Grasses. By Prof. Thomas Shaw. How to cultivate, harvest and use them; practical and reliable. 1.00
Farm Grasses of the U. S. By W. J. Spillman, Agrostologist of the U. S. Department of Agriculture. 1.00
Tobacco Culture. Full practical details by 14 experienced growers in different sections of the country. .25
Tobacco Leaf. By Killebrew and Myrick. Issued 1897. Approved methods of culture, harvesting, curing, packing, selling and manufacturing. Every process in field, barn and factory made plain. 2.00
Wheat Culture. By D. S. Curtiss. How to double the yield, varieties, improved machinery, etc. .50
Ten Acres Enough. A practical experience showing how a very small farm may be made to keep a very large family. 1.00

DAIRYING AND DAIRY FARMING.

First Lessons in Dairying. By H. E. Van Norman. This book is just the thing for everyday dairymen and should be in the hands of every farmer in the country. \$.50
Practical Dairy Bacteriology. By H. W. Conn. The latest, most complete and up-to-date work on the subject. 1.25
Profitable Dairying. By C. L. Peck. A practical guide to successful dairy management. .75
Dairymen's Manual. By Henry Stewart. A trustworthy handbook, covering the entire subject, with latest approved methods. 1.50
Testing Milk and Milk Products. By L. L. Van Slyke. A handbook for butter-makers, cheese-makers, producers of milk, etc. .75

CATTLE, SHEEP AND SWINE.

Shepherd's Manual. By Henry Stewart. A valuable treatise on sheep for American farmers; breeds, breeding, management and diseases. \$1.00
Swine Husbandry. By F. D. Coburn. Revised and enlarged edition. Breeding, rearing, management, diseases, prevention, treatment. 1.50
Swine. By Dr. R. A. Craig. A concise, practical and popular guide to the prevention and treatment of the diseases of swine. .75

HORSES.

Hints to Horsekeepers. By H. W. Herbert. How to breed, buy, break, drive, ride, groom, use, feed and physic. \$1.50
The Family Horse. By G. A. Martin. Stabling, care, feeding, working, driving, etc. (Nothing about breeding). 1.00
The Saddle Horse. Riding, training and feats under saddle. 1.00
Modern Horse Doctor. By G. H. Dadd, M.D., V.S. Preservation and restoration of health, treatment of lameness, etc. 1.00

POULTRY, PIGEONS AND BIRDS.

Making Poultry Pay. By Edwin C. Powell. Just issued. The practical side of poultry keeping, hatching, rearing, marketing, breeds, etc. 324 pages. \$1.00
Poultry Architecture. By G. B. Fiske. All about the construction of poultry buildings of all grades, styles and classes; coops, locations, etc. 125 pages. Illustrated. .50
The American Standard of Perfection. (Adopted by American Poultry Assn.) Descriptions of recognized breeds, judges' instructions, etc. 1.50
Five Hundred Questions and Answers in Poultry Raising. Also feed, care, diseases, eggs, incubation, buildings, etc. .25

APIARY, BEES, HONEY.

A B C of Bee Culture. By A. I. Root. A cyclopedia on bees, honey, hives, implements, honey plants, etc. \$1.50
Quinby's New Bee Keeping. By L. C. Root. The mysteries explained; 50 years' experience; latest discoveries and inventions. 1.00

BUILDINGS AND CONVENIENCES.

Barn Plans and Outbuildings. Ideas, suggestions, plans for barns, granaries, smoke, ice, poultry, dog, bird houses, etc.; rootpits, etc. \$1.00
Farm Conveniences. What to do and how to do it in all departments of farm labor; home-made aids to farm work. 200 engravings. 1.00
Fences, Gates and Bridges. A much-needed and valuable work. The descriptions are abundantly illustrated. The book also contains a synopsis of the fence laws of the different States. Over 100 engravings. .50

PESTS—INSECTS, PLANT DISEASES, WEEDS.

Insects and Insecticides. By Prof. Weed. Tells how to combat insects in field, orchard, garden, greenhouse and dwelling. \$1.50
Insects Injurious to Vegetables. By F. H. Chittenden. A ready reference book for truckers, market gardeners, farmers, as well as others who grow vegetables in a small way for home use. 1.50
Fumigation Methods. By W. G. Johnson. A new and practical treatise upon simple and effective means of exterminating insects and vermin in field, orchard, nursery, greenhouse, mill, granary, elevator, car, ship, etc. 1.00
The Spraying of Plants. By Prof. Lodeman. Insects and fungi: liquids and powders; application and apparatus. 1.50
Spraying Crops. Why, When and How. By Clarence M. Weed. A revised and enlarged edition, prepared especially for the guidance of users of spraying machines, telling when and how garden and field crops, fruit and shade trees; also vegetables, ornamental plants and flowers should be sprayed for their various insect and fungous enemies; illustrated. .50

SOILS AND MANURES.

Soils. By C. W. Burkett. A complete study of the improvement and management of the soil, as well as a discussion of the problems of crop growing and crop feeding. \$1.25
Making Manures: Bommer's Methods. A comprehensive guide for making manures on the farm. .25

CULTURES OF SPECIAL VEGETABLES.

Asparagus. By F. M. Hexamer. A practical new treatise on the best methods of raising, cultivating, harvesting, marketing, forcing and canning asparagus. \$.50
Celery Culture. By W. R. Beattie. A practical guide for beginners and a standard reference to those already engaged in growing celery. .50
Mushrooms, How to Grow Them. By Wm. Falconer. The best and most practical American work on growing for home use or for market. 1.00

GENERAL FRUIT AND NUT CULTURE.

Successful Fruit Culture. A new book by Prof. S. T. Maynard. A practical guide to the cultivation and propagation of fruits from the standpoint of profit. It covers the whole subject from varieties to soil, marketing, storage, etc. Illustrated. \$1.00
American Fruit Culturist. By J. J. Thomas. 20th edition; just revised and enlarged. A handbook of everything pertaining to fruit culture. 2.50
The Fruit Garden. By P. Barry. A standard work on fruit culture by an experienced author and nurseryman. 1.50
The Nut Culturist. By A. S. Fuller. Propagation, cultivation, marketing of nut-bearing trees and shrubs. 1.50

CULTURES OF SPECIAL FRUITS.

The Apple Orchard (new). By F. A. Waugh. This work serves as a manual for the novice as well as a book of reference for all those of more experience. Every detail connected with the successful cultivation of the apple is thoroughly explained. \$.75
Cranberry Culture. By J. J. White. Location, preparation, planting, management, picking, keeping, etc. 1.00
Cape Cod Cranberries. By Jas. Webb. A valuable handbook. .40
Grape Culturist. By A. S. Fuller. One of the best works on cultivation and management of hardy grapes. 1.50
Grape Growing and Wine Making, American. By Prof. G. Husmann. Revised. Garden and vineyard management from planting to harvesting, both in the East, West and California; all about making wine. 1.50
Grape Growers' Guide (under glass). By Wm. Chrlton. Cultivation suited to America in warm and cold grapes, construction, heating. .75
Grape Growing for Amateurs. By Molineaux. The growing of foreign grapes under glass. .50
Peach Culture. By Hon. J. A. Fulton. Revised. The best work on growing peaches for profit or home use. 1.00
Pear Culture for Profit. By P. T. Quinn. Soils, preparation, planting, management, harvesting, marketing. 1.00
Plums and Plum Culture. By Prof. Waugh. A new and complete manual on all known varieties of plums. 1.50
Quince Culture. By W. W. Meech. Revised and enlarged. Varieties, propagation, cultivation, diseases, insects and remedies. 1.00
Strawberry Culturist. By A. S. Fuller. Field, garden, forcing and pot culture; hybridizing, varieties, etc. .25

FLORICULTURE.

Greenhouse Construction. By L. R. Taft. A complete treatise on greenhouse structures and arrangements of the various forms and styles of plant houses; for professional florists as well as amateurs. 100 illustrations. 210 pages. 5x7 inches. \$1.50
Greenhouse Management. By L. R. Taft. This book forms an almost indispensable companion volume to "Greenhouse Construction." Over 100 excellent illustrations. 210 pages. 5x7 inches. Cloth. 1.50
The Window Flower Garden. By Julius J. Heinrich. The author is a practical florist, and this enterprising volume embodies his personal experience in window gardening during a long period. Illustrated. 123 pages. 5x7 inches. Cloth. .50
Parsons on the Rose. By Samuel B. Parsons. A treatise on the propagation, culture and history of the rose. New and revised edition. A simple garden classification has been adopted, and the leading varieties under each class enumerated and described. Illustrated. 211 pages. 5x7 inches. Cloth. 1.00

NEW UNIVERSAL GARDEN TOOLS

MATTHEWS' *New Universal* GARDEN DRILL

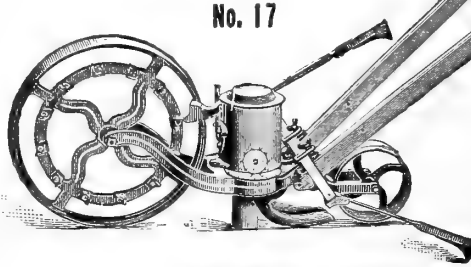
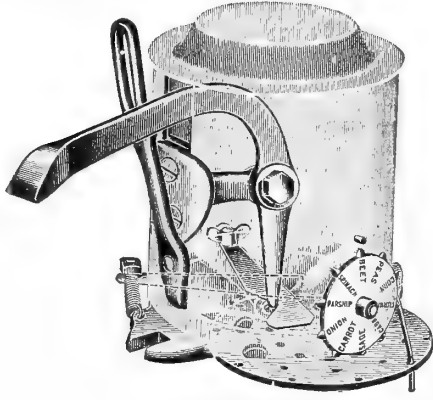
ONE OF THE STANDARD DRILLS OF AMERICA.

Simple in Construction. Neat in Design. Efficient in Operation. None Better Can Be Procured.

The indicator has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTER of the hole in the bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided a CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER.

List price, \$8.00. Our retail price, \$6.75.

The Seeding Device



No. 17

PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.



Seeding can be regulated to exact quantity desired.

Matthews' *New Universal* Hill and Drill Seeder No. 16

Is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw, in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. If this implement is wanted, be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments. Our retail price, \$7.50. List price, \$9.00.

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend as FAR PREFERABLE, one of the separate drills and a separate single wheel hoe complete, with ALL the attachments, for which our retail price covering the two separate implements is only \$12.00.

Matthews' *New Universal* Constellation Seeder

Hoe, Cultivator, Plow, Rake and Marker No. 19

The two wheels are desirable when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

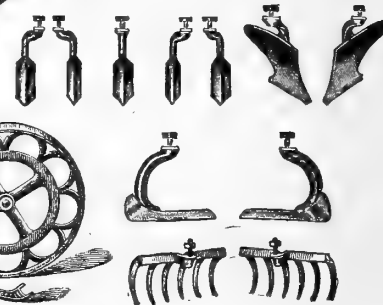
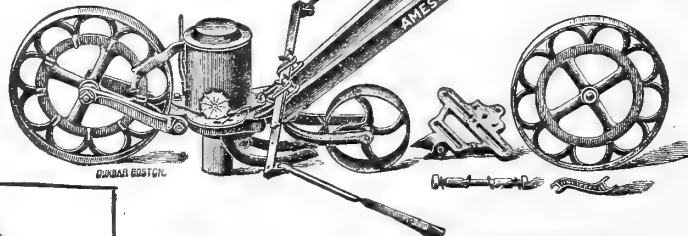
List price, boxed.....\$10.50

Retail price, boxed..... 8.50

The Marker No. 18

The Marker

is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.



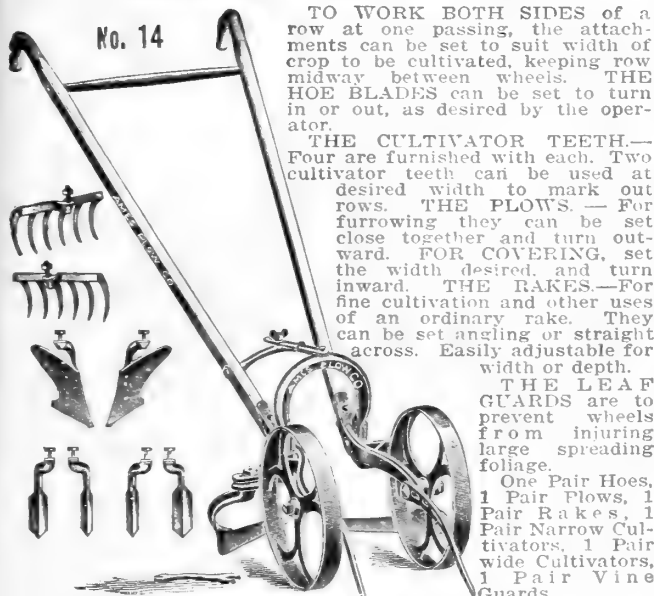
***New Universal* Gem Seed Drill**

It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Retail price, \$5.25. List price, \$6.25.

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.

New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake



TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels. THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows. THE PLOWS.—For furrowing they can be set close together and turn outward. FOR COVERING, set the width desired, and turn inward. THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across. Easily adjustable for width or depth.

THE LEAF GUARDS are to prevent wheels from injuring large spreading foliage.

One Pair Hoes, 1 Pair Plows, 1 Pair Rakes, 1 Pair Narrow Cultivators, 1 Pair wide Cultivators, 1 Pair Vine Guards.

Specially designed for working both sides of the row at one passing.

Our Retail Price, \$5.50. List Price, \$6.50.

New Universal DOUBLE WHEEL HOE WITH HOE BLADES ONLY.

Our Special Price, \$3.75. List Price, \$4.25. No. 15.

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow

No. 26.

This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. List Price, \$9.50. Our Special Price, \$8.00.

New Universal Hand Single Wheel Hoe, Cultivator, Plow and Rake

No. 11.

As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between-row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under center of frame. Later cultivation must be done between rows. The attachments are: 1 Pair Hoes, 1 Pair Rakes, 5 Cultivator Teeth, 1 Vine or Leaf Guard, 1 Pair Plows. List Price, \$5.75. Our Special Price, \$5.00.

New Universal "FLIER" Hand Single Wheel Hoe and Plow

Our Special Price, \$4.50. List Price, 5.00



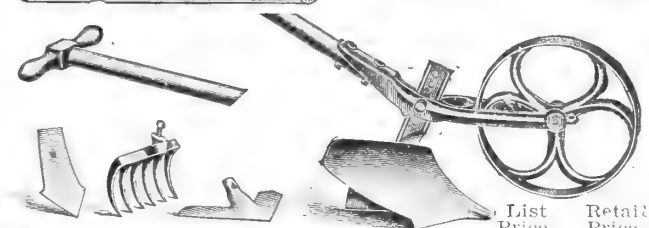
This implement is same as our regular Single Wheel Hoe, but at this price fewer attachments are furnished. They are: 1 Pair Hoes, 3 Cultivator Teeth, 1 Large Plow.

New Universal HAND SINGLE WHEEL HOE

No. 13.

With Hoe Blades Only. Our Special Price, \$3.00. List Price, \$3.25.

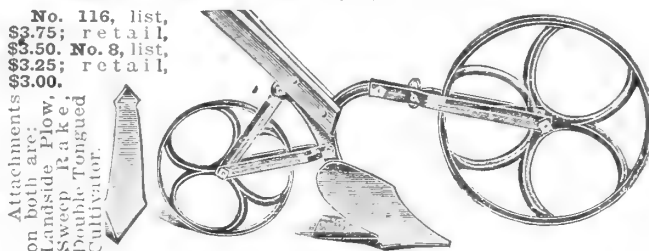
New Universal Wheel Plow



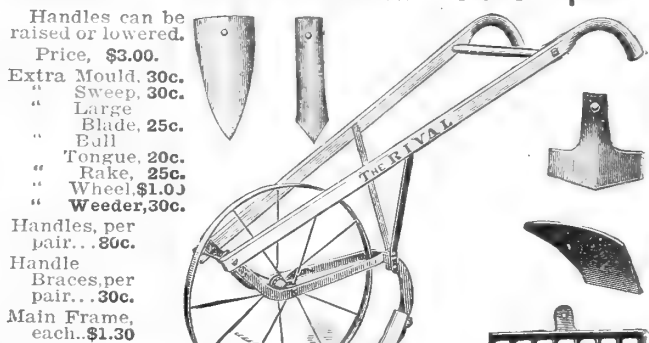
No. 10—Wheel Plow only..... List Price, \$2.25. Retail Price, \$2.00.
No. 112—Same with all attachments shown..... 2.75 2.40

New Universal GARDEN PLOW AND ATTACHMENTS.

No. 116—With wheel front and rear gives perfect steadiness and regulates exact depth.
No. 8—Same as No. 116, but without rear wheel.

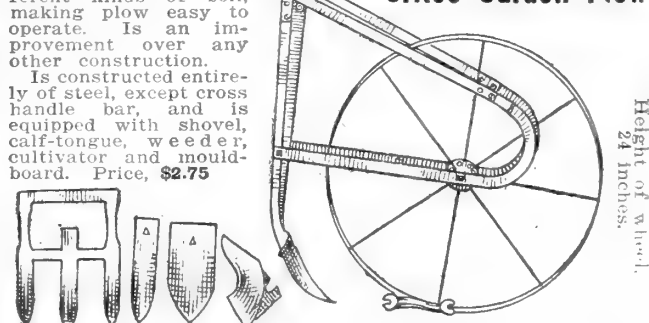


Baltimore "RIVAL" Garden Plow Complete



Handles can be raised or lowered. Price, \$3.00.
Extra Mould, 30c.
" Sweep, 30c.
" Large Blade, 25c.
" Bull Tongue, 20c.
" Rake, 25c.
" Wheel, \$1.00
" Weeder, 30c.
Handles, per pair... 80c.
Handle Braces, per pair... 30c.
Main Frame, each... \$1.30

No. 1 Grilco Garden Plow



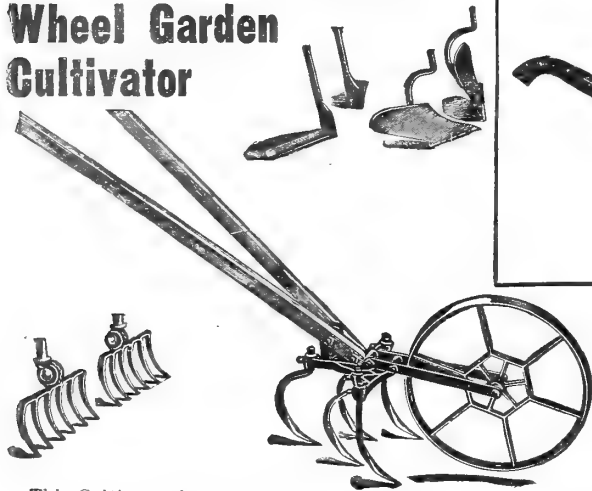
The draft can easily be changed to suit different kinds of soil, making plow easy to operate. Is an improvement over any other construction. Is constructed entirely of steel, except cross handle bar, and is equipped with shovel, calf-tongue, weeder, cultivator and mould-board. Price, \$2.75

Height of wheel, 24 inches.

No. 2 is similar to the No. 1 above, except the handles are wood, curved plow-handle style. Price, \$2.75

All Prices Subject to Change Without Notice.

The Baltimore Single Wheel Garden Cultivator

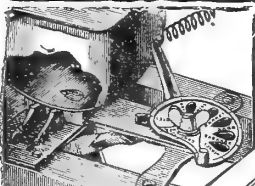


This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments, can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable.

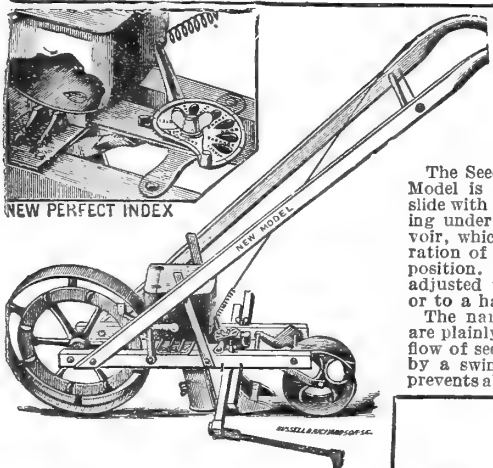
Price, without rakes, \$4.25. With rakes, \$4.75.

Have You a Hot-Bed?

It is the only machine suited to sow in a hot-bed. Sows up close to the sides in very straight rows. Sows the smallest packet of seeds as well as a large bulk. Price, \$1.00.



NEW PERFECT INDEX



New Model Seed Drill

The Seeder Adjustment in the New Model is accomplished by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir, which is provided with a perforation of similar shape in a reversed position. This size can be instantly adjusted to size indicated by index or to a hair's breadth variation.

The names of the principal seeds are plainly shown on the index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed. Price, \$8.00

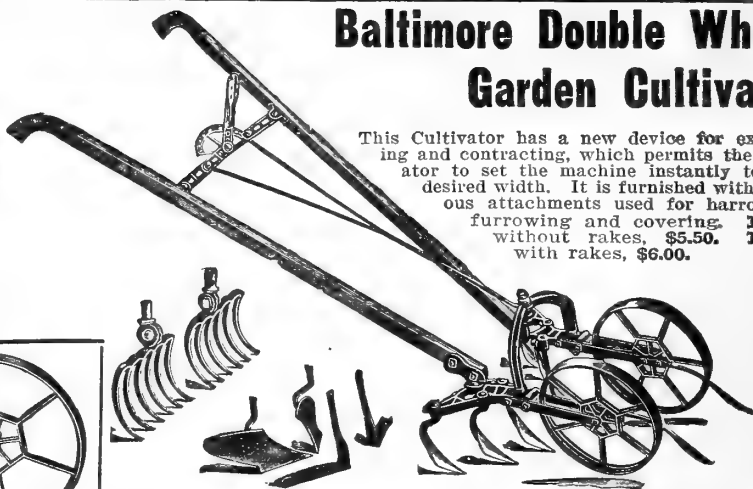
IRON AGE COMBINED DOUBLE WHEEL HOE HILL AND DRILL SEEDER No. 6



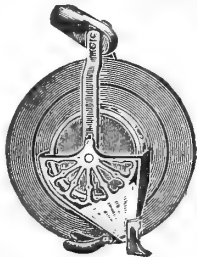
In the No. 6 Hill and Drill Seeder is combined a drill seeder with hill dropping device, a double wheel hoe and a single wheel hoe. Will drop in hills at 4, 6, 8, 12 or 24 inches apart. \$12.00.

Baltimore Double Wheel Garden Cultivator

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering. Price, without rakes, \$5.50. Price, with rakes, \$6.00.

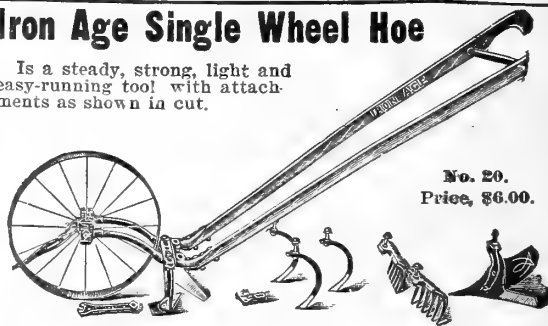


Eureka Seeder



Iron Age Single Wheel Hoe

Is a steady, strong, light and easy-running tool with attachments as shown in cut.



No. 20.
Price, \$6.00.

No. 1.

Iron Age Double Wheel Hoe

As shown in cut.
Price, \$7.00.



No. 3. Iron Age Double Wheel Hoe. Same tool as shown in cut, but with hoe only. \$4.25.

Old Dominion Seed Drill

This drill is of a type familiar to every market gardener in the country. The points that we claim are simplicity, quality of material, finish and the thoroughly satisfactory way it does its work. None better made. Try it.

Price \$7.00



WATER TRUCKS AND COMBINATIONS

With Wood or Steel Wheels

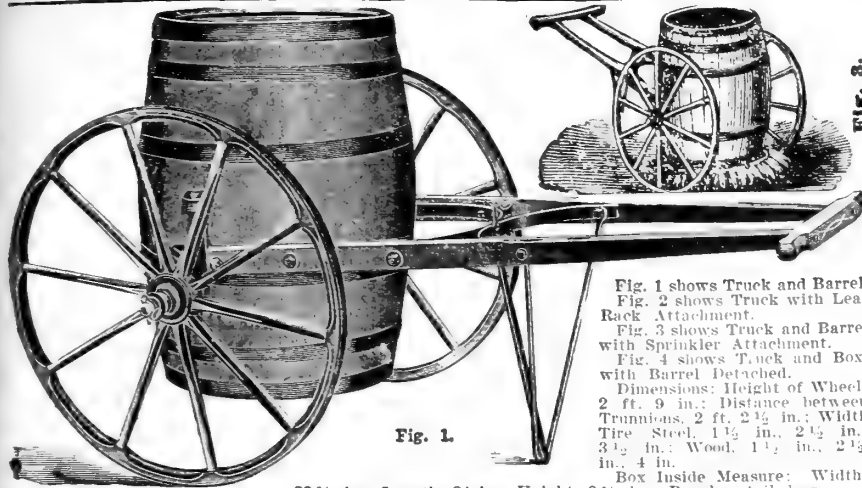


Fig. 1.

22 1/2 in.: Length, 24 in.; Height, 8 1/2 in. Box has tail door

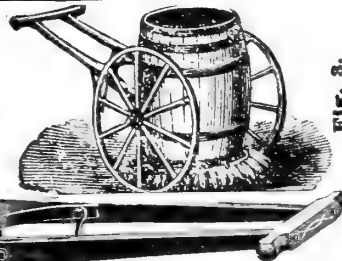


Fig. 2.

Fig. 1 shows Truck and Barrel.
Fig. 2 shows Truck with Leaf Rack Attachment.

Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached.

Dimensions: Height of Wheels 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2 1/2 in.; Width Tire Steel, 1 1/2 in., 2 1/2 in., 3 1/2 in.; Wood, 1 1/2 in., 2 1/2 in., 4 in.

Box Inside Measure: Width,

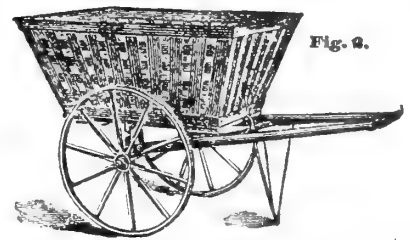


Fig. 3.

Extras For Water Truck.	List Price.	Special Price.
Handles, each.....	\$1.30	\$.80
Cross-Bars, each.....	.65	.40
Three Leg Support, each.....	2.30	1.50
Axle with Trunnion Holder.....	1.20	.75

Fig. 1 represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

Wheelbarrow Leaf-Rack Attachment

Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity, 10 bushels; made of galvanized wire, bolted to a wooden base. List price, \$6.50; Our Special price, \$4.00.

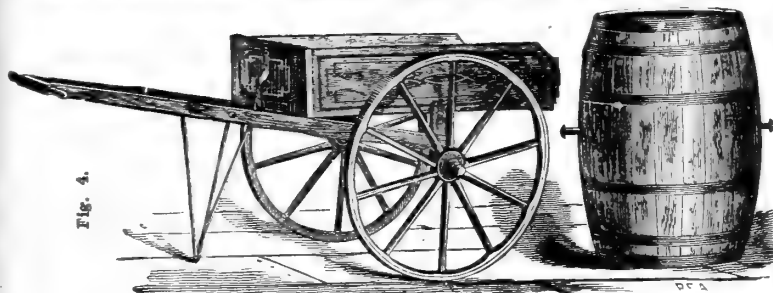


Fig. 4.

PRICE LIST.

	List Price.	Spe'l Price.
Water Truck with 1 1/2" tires.....	\$10.00	\$6.00
Water Truck and Barrel.....	15.00	8.50
Water Truck and Box.....	15.00	8.50
Water Truck, Barrel and Box	20.00	11.50
Sprinkling Attachment.....	5.00	3.25
Leaf Racks.....	8.00	4.75
New Barrel.....	5.00	3.00
Box.....	5.30	3.00

Trunnions—List, per pair, 75c. Retail, per pair, 50c.

For 2 1/2-inch Tires on Trucks add to the above price—List, \$1.20. Retail, 75c.

For 3 1/2-inch Tires on Trucks add to the above price—List, \$2.40. Retail, \$1.50.

EXTRA TRUCK WHEELS.

	List Price.	Spe'l Price.
Reg. Tire, wood or steel, each.....	\$3.00	\$2.00
2 1/2-in. Tire, wood or steel, ea.	4.00	2.50
4-inch Tire, wood, each.....	4.50	2.75
2 1/2-inch Tire, steel, each.....	4.50	2.75

Indispensable about parks, cemeteries and country seats for watering roads, drives, walks, lawns, etc. The wheels have wide tires and the whole outfit is well made. It can also be used as a Tank Cart for carrying water, spraying trees and removing matter from cesspools, vaults, etc. Substantially made throughout. There is a valve in the bottom of tank, operated by lever, within easy reach of driver.

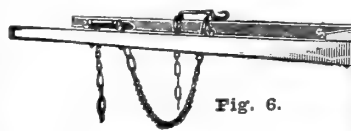


Fig. 6.

Baltimore Lawn and Street Sprinkler

List \$160 Retail \$85



BALTIMORE PUSH CART

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

Retail.....	\$7.50	List.....	\$13.00
Extra wheels, each—List, \$5.00. Retail, \$3.00.			

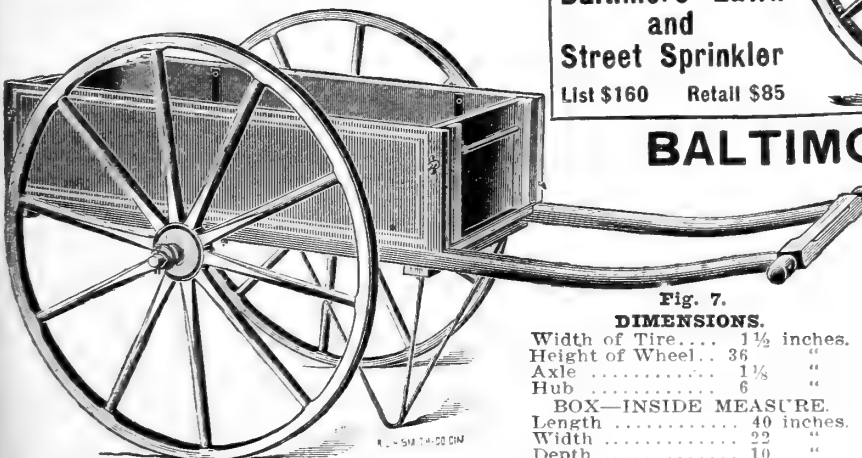
Fig. 7.

DIMENSIONS.

Width of Tire.....	1 1/2 inches.
Height of Wheel.....	36 "
Axle.....	1 1/2 "
Hub.....	6 "

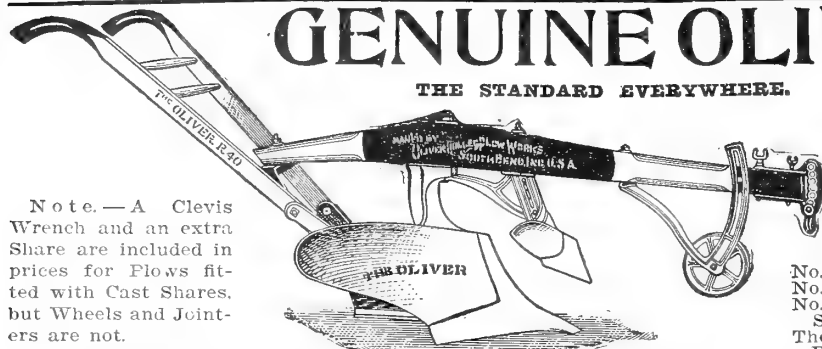
BOX—INSIDE MEASURE.

Length.....	40 inches.
Width.....	22 "
Depth.....	10 "



GENUINE OLIVER PLOWS

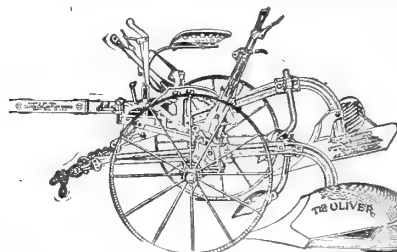
THE STANDARD EVERYWHERE.



Note.—A Clevis Wrench and an extra Share are included in prices for Plows fitted with Cast Shares, but Wheels and Joints are not.

No. A-1 and A-2, Right Hand only	\$6.00
Wood Beam—Right and Left Hand	
No. B-N, Right Hand only	\$8.00
No. B Vineyard, Right Hand only	9.00
No. 10-N	9.00
No. 13-N, Right Hand only	10.25
No. 19-N	11.00
No. 20-N	11.50
No. E 1-N	12.00
No. 40-N	12.00
No. 40-XX, Left Hand only	12.50
No. 22, Chilled, Iron Beam, Right and Left Hand	12.00
No. 3-X, Chilled, Iron Beam, Right Hand	10.00
No. 1—Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel	35.00
The Oliver Subsoiler, best of its kind, with Wheel	14.50

OLIVER REVERSIBLE SULKY PLOW No. 23



This reversible sulky plow is more easy to manipulate than any other on the market and more convenient and safe for the operator in hillside work. By means of the power lift, operated by a foot trip when riding, or a hand latch when walking, this "horse lift," which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half. With this plow the operator can keep his eyes on his team and his hands on the reins; the feet only are needed in order to raise the plow. Second only to this important improvement is the simple and

easily operated tilting device connected with the seat of this sulky, which, when plowing along hillsides while the machine is, of course, leaning down hill, makes it easy for the operator to keep a level seat and maintain the equilibrium of the plow. For this reason steeper hillsides can be plowed with greater safety, as the liability of the plow tipping over is entirely eliminated and the soft, yielding seat spring makes the operator much more comfortable.

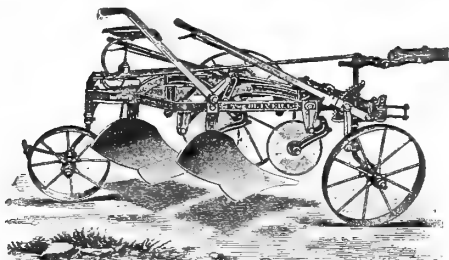
	List Our Spec'l Price.	Price.
12-in. Sulky with Chilled Shares, Joints and 2 or 3-Horse Hitch	\$70.00	\$52.50
14-in. Sulky with Chilled Shares, Joints and 2 or 3-Horse Hitch	71.00	53.25

OLIVER SULKY PLOW No. 11

Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongue. Depth easily regulated. Turns square corners without lifting out of the ground. Made in both right and left hand.

	List Our Spec'l Price.	Price.
No. 11—Sulky Plow, Steel or Chilled Mouldboard, Chilled Share, Rolling Coulter, Weed Hook, Three-Horse Evener and Tongue	\$48.00	\$36.00
No. 11—Sulky Plow, same as above, but with Jointer instead of Rolling Coulter	47.00	35.25

OLIVER No. 1 GANG PLOW



Plows a uniform depth in uneven ground. Is raised or lowered with little or no exertion. Is adapted to any soil and every condition of plowing.

Turns to right or left while plow bottoms are in ground.

Can be handled as easily as a wagon. Is light in draft and perfect in work.

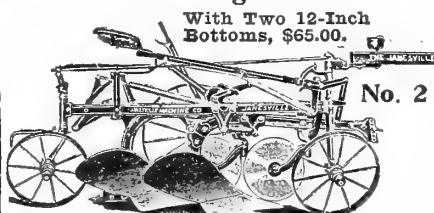
In opening land a square and level furrow is turned. Wheels are large and the plow runs steadier in consequence.

Is fitted with dust and sand-proof boxes and caps. Plows two to ten inches in depth, as desired, at will of operator.

No. 1—Gang Plow, Steel or Chilled Mouldboard, Chilled Shares, Rolling Coulter, Weed Hooks, Four-Horse Evener and Tongue. List Price, \$86.00; Our Special Price, \$64.50.

No. 1—Gang Plow, same as above, but with Jointers instead of Rolling Coulter. List Price, \$84.00; Our Special Price, \$63.00.

Janesville Gang Plow No. 2



With Two 12-Inch Bottoms, \$65.00.

No. 2

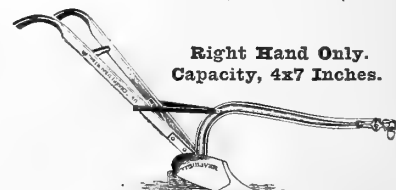
Has all points of latest, up to date Gang Plow—spring balance features, ease of handling, foot-lever horse lift, extreme flexibility, self-leveling device, furrow wheel connection, light draft. Beams adjustable to turn 12, 13 or 14-inch furrows. Janesville bottoms dip point first into the ground, and on reaching depth wanted automatically level themselves. Without this self-leveling device it is impossible to get these perfect walking plow principles.

There are a number of other excellent devices on this plow, which altogether go to make it one of the most up to date implements in use. List Price, \$85.00; Our Special Price, \$63.75.

JANESVILLE SULKY PLOW No. 2, One 12-inch Bottom.—Similar to above Janesville Gang Plow, but has only one bottom. One of the most up to date plows of the kind on the market. List Price, \$59.00; Our Special Price, \$44.25.

JANESVILLE JUNIOR SULKY PLOW, No. 8.—List Price, \$49.00; Our Special Price, \$36.75. Send for Catalogue.

The Goober Oliver Plow



Right Hand Only.
Capacity, 4x7 Inches.

This plow is especially designed for Cotton Cultivation and Truck Farming, and completely satisfies the farmer who is looking for a perfect one-horse plow that is light in weight and draft and thoroughly adjustable, durable and economical. In certain portions of the South it is also used very largely in the cultivation of peanuts.

The share is cutter style, extending to top of mouldboard, cutting instead of breaking soil. Price, \$5.50.

ALL PRICES SUBJECT TO
CHANGE WITHOUT NOTICE.

OLIVER PLOW REPAIRS

MOULDBOARDS.

No.	No.
A-1 & A-2.	40 XX.
B. & B. Vin.	E.
10-0.	3 X.
13 & 13 Vin.	98.
19.	99.
20.	119.
22.	120.
32.	140.
40.	

LANDSIDES.

No.	No.
A.	40 & 40 XX.
B. & B. Vin.	E.
10-0.	98.
13 & 13 Vin.	99.
19.	119.
20.	120.
32.	140.
40.	

HANDLE BRACES.

No. A.	No.
No. B-10-13-13 Vineyard, B.	
Vin.	
All other Handle Braces.	

BEAMS.

No. A-B-B Vineyard and 10.	
No. 40 XX.	
All other numbers, Wood.	
No. 22, Iron.	

WOOD BEAM CLEEVES.

Marked "A," for One-Horse Plows, Wood Beam.	
Marked "B," for Two-Horse Plows, Wood Beam.	
Marked "D," for Three-Horse Plows.	
Shackles, Twisted.	
Wrenches.	
Guide Pins.	
Shackle Pins.	
Links, Two-Horse.	
Rings, One-Horse.	

IRON AND STEEL BEAM CLEEVES.

Marked "2," for B, 10 and 13 Plows.	
Marked "3," for 19 and 20 Plows.	
Marked "4," for 40 Plows.	

HANGING COULTERS.

All Numbers, complete two-horse, except 7-L and 3-X.	
Holder, same as for jointers.	

STANDARDS.

No.	No.
A.	40.
B.	40 XX.
B. Vin.	E.
10-0.	119.
13.	120.
19.	140.
20.	

HANDLES.

Per Pair and Single.	
All numbers, per pair, loose.	
All numbers, single, each.	
Rounds, per pair.	
L. S. Handle Plates.	

Complete—Per Set.

No. A-B-10-0.	
No. 22, complete, less rod.	
No. 13, complete.	
No. B Vineyard.	
No. 98-99-119-120 and 140.	
No. 113.	
No. 19-20-E, 40 and 40 XX.	

SHARES.

Numbers.	Solid Cutter Shares.	Solid Plain Shares.	Cutter Oliver Slip Nose Shares.	Plain Oliver Slip Nose Shares.	Chilled Reversible Wings.	Chilled Reversible Slips.
A	22c.	20c.	25c.	8c.		
B	25c.	22c.	28c.	10c.		
B Vin.	22c.		28c.	10c.		
10-0	25c.	35c.	10c.			
13	30c.	40c.	10c.			
19	30c.	40c.	10c.			
20	35c.	45c.	10c.			
22	55c.	50c.	55c.	10c.		
3-X	40c.		10c.			
40	40c.	50c.	10c.			
40-XX	50c.					
E	40c.	50c.	10c.			
98	55c.	40c.	27c.	18c.		
99	55c.	40c.	27c.	18c.		
119	55c.	45c.	32c.	22c.		
120		45c.	32c.	22c.		
140		45c.	32c.	22c.		

ROLLING COULTERS.

11-in., for one-horse plows, complete.	
13-in., for two or three-horse plows, complete.	

JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.	
No. D—Chilled, for one-horse plows.	
No. 2—For two and three-horse plows.	
Jointer Points, chilled, all numbers.	
Jointer Mouldboards.	
One-horse Jointer Holders.	
Two-horse Jointer Holders.	
One-horse Jointer Standards.	
Two-horse Jointer Standards.	

COMBINATION PLOW REPAIRS.

Numbers.	Mould-board Lugs.	Handle Lugs.	Mould-board and Landside Braces.	Shins.	Levers.	Springs.	Landside Plates.
98	20c.	20c.	50c.		25c.	5c.	5c.
99	20c.	20c.	50c.		25c.	5c.	5c.
119	20c.	20c.	40c.	20c.	25c.	5c.	
120	20c.	20c.	40c.	20c.	25c.	5c.	
140	20c.	20c.	40c.	20c.	25c.	5c.	
32X	20c.	20c.					

HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mould-board.	Steel Mould-board.	Standards.	Landsides.	Cast Shares.	Set Handles.	Beams.	Clevises.	Wrenches.	Wheels.	Jointers.
52		\$2.75	\$3.00	\$5.55	\$5.50	\$1.75	\$1.50	\$2.00	\$1.15	\$1.75	
52 1/2	\$3.25		2.75	.75	.40	1.75	1.50	.75	.20	1.00	
54	\$3.25	4.00	3.25	.75	.55	2.00	1.50	.35	.20	1.00	\$2.00
58	2.50			.60	1.25	4.00	.35	.20	1.00		
524	3.00	5.00		.75	.45	1.75	4.00	1.00	.20	1.00	

BOLTS.

For shares, mouldboards and landsides, jointer and coulters standard No. 5, end of handle brace, each.	
For jointer and coulters holder, No. 6, wheel standards, straight, end of beam, wheel hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and landside bolts, No. 99 S. B. jointer holder bolts, each.	
For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2 3/4, each.	
Wheel hook bolts.	

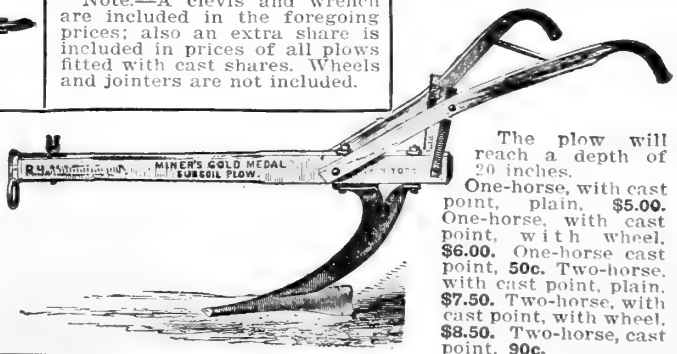
WHEELS.

Straight standard, one-horse, complete.	
Brace, standard, two-horse, complete.	
Standards, one-horse, straight.	
Standards, two-horse, all kinds.	
Wheels only, one-horse.	
Wheels only, two-horse.	
Hubs.	
Center pins or hub bolts.	

Note.—In ordering wheels, say if for right or left hand wood or steel beam plows.
All Polished Points each, add extra 10 cents.
Non-Reversible Shares and Slips same as Reversible.
Bowers' Slips same as other slips.
Where blank spaces occur parts are not made, hence prices are not given.
Other parts not enumerated, prices furnished on application.

Note.—A clevis and wrench are included in the foregoing prices; also an extra share is included in prices of all plows fitted with cast shares. Wheels and jointers are not included.

Gold Medal Sub-Soil Plow



The plow will reach a depth of 20 inches.
One-horse, with cast point, plain, \$5.00.
One-horse, with cast point, with wheel, \$6.00.
One-horse cast point, 50c.
Two-horse, with cast point, plain, \$7.50.
Two-horse, with cast point, with wheel, \$8.50.
Two-horse, cast point, 90c.

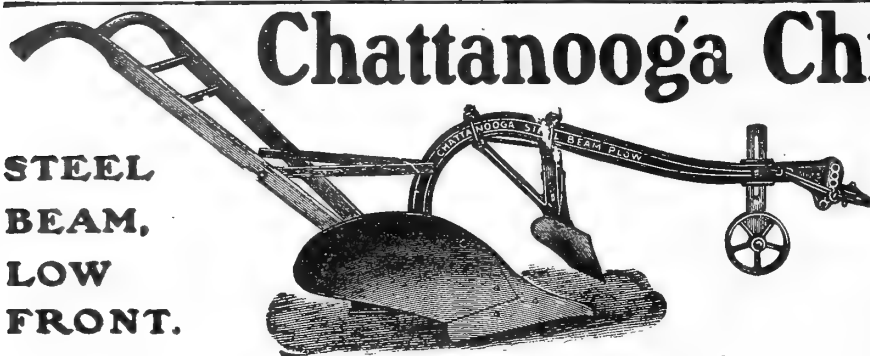


OLD DOMINION GRUB PLOW

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one.

Chattanooga Chilled Plows.

**STEEL
BEAM,
LOW
FRONT.**



Cut represents two and three-horse plow.

Prices Chattanooga Plows and Extras

No.	Capacity.	Wt., lbs.	Price.	Shares, Plain.	Stony Ground or Sod/Cutter Shares.	Shares, Cutter.	Shares, Slip Nose.	Slips.	Landslides.	Mouldboards.	Steel Beams.	Wood Beams.	Handles with Braces, Per Set.	Standards.
70—1-Horse Steel Beam.....		45	\$4.75											
62—1-Horse, Wood Beam.....	5x9	60	\$4.25											
62—1-Horse, Steel Beam.....	5x9	70	5.25	.20										
72—1-Horse, Steel Beam.....	5x8	75	5.75											
63—Very Light 2-Horse, Steel Beam.....	8x10	105	8.50											
64—Light, 2-Horse, Steel Beam.....	9x11	123	10.00											
65—Medium, 2-Horse, Steel Beam.....	10x12	134	11.00											
66—Heavy, 2-Horse, Steel Beam.....	12x14	165	12.00											

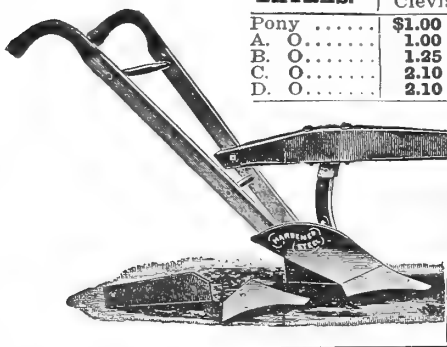
Rolling Coulters, complete, \$3.00; Wheels, complete, \$1.00; Jointers, complete, \$2.00; Bolts for Shares, Landsides, Moulds, 3c.; Rear Beam Bolts on 1-Horse Plows, 5c. All other Beam Bolts, 10c.

CLIMAX STEEL PLOWS

CLIMAX EXTRAS.	Points	Lands	Moulds.
Pony.....	\$.30	\$.20	\$.55
A. O.....	.40	.25	.65
B. O.....	.50	.25	.80
C. O.....	.60	.30	1.10
D. O.....	.70	.30	1.25

All are made with steel standard and cap, sloping landside and adjustable slip heel.

CLIMAX EXTRAS.	Beams without Clevis	Handles per pair, less bolts	Wood Beam Clevis
Pony.....	\$1.00	\$.75	\$.20
A. O.....	1.00	.75	.20
B. O.....	1.25	.75	.25
C. O.....	2.10	1.00	.35
D. O.....	2.10	1.00	.35



Combination Potato Digger

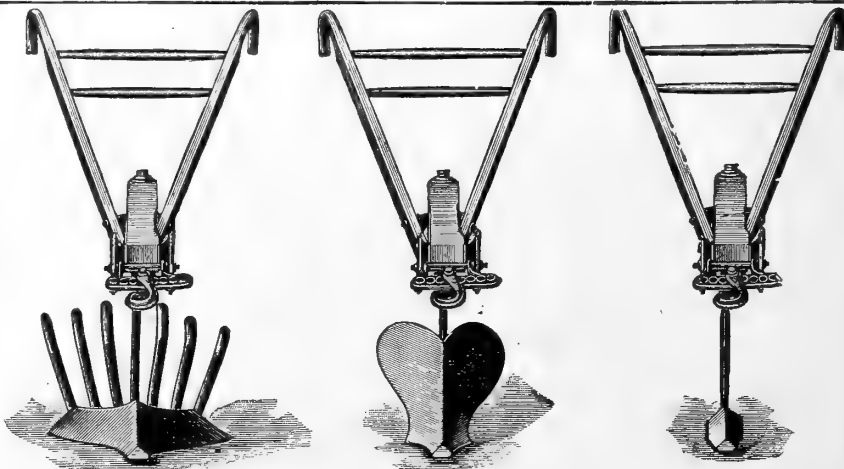
**Subsoil Plow and Double Mouldboard Plow.
FOR TWO OR THREE HORSES.**

Each plow is in itself a perfect tool. The change from one plow to another can be made in a few minutes. The subsoil plow should always be used with a wheel.

The standard is made of malleable iron, 6½ inches wide at the narrowest point and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

OUR SPECIAL PRICES.

Subsoil Plow, plain.....	\$5.00
Subsoil Plow, with wheel.....	6.00
Double Mould for same, 12-inch.....	1.00
Potato-Digging Attachment for same.....	2.00
Same with Steel Beam, add.....	1.00



Points of Merit: 1st. Low front, similar to Steel Pattern Plows; will not collect trash. 2d. Handle not bolted to mould, but to standard and brace that is attached to beam, thus preventing breakage of many moulds.

3d. Brace or rod between landside and mould, giving additional strength where it is most needed, making plow absolutely rigid.

4th. Special bolts which will not turn and can be readily taken out. All the base bolts are alike and interchangeable; only one kind necessary to keep on hand.

5th. Points are fastened on with two bolts; never fails; gives satisfaction.

Chattanooga One-Horse Plows

The one-horse plows are priced below are a little different from design shown in cut. The No. 72 is the factory's latest pattern.

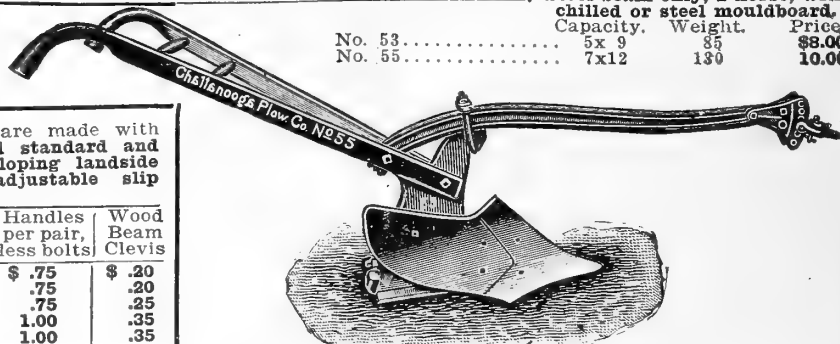
PRICES:

No. 62—Wood Beam.....	\$4.25
No. 62—Steel Beam.....	5.25
No. 72—Steel Beam.....	5.75

Chattanooga Reversible Hillside Plows

Steel beam only, 2-horse, with chilled or steel mouldboard.

Capacity.	Weight.	Price.
No. 53.....	5x 9	\$8.00
No. 55.....	7x12	10.00

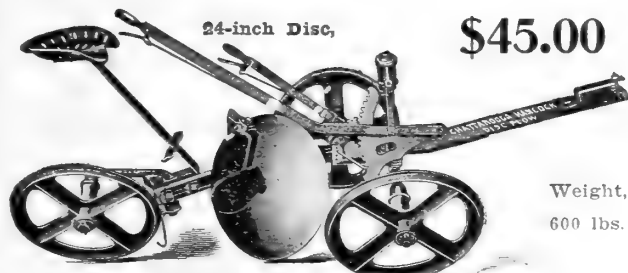


PONY.—Light, 1-horse, 7-in. cut, wood beam; very popular. Price, with extra steel point, weight 37 lbs., \$2.75. **A. O.**—1-horse, 8-in. cut, wood beam. Price, with extra steel point, wt. 41-lb., \$3.25.

B. O.—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner; very light draft. Price, with extra steel point, weight 43 lbs., \$3.75. **C. O.**—2-horse, 10-in. cut, wood beam. Price, with extra steel point, weight 63 lbs., \$5.25. **D. O.**—2-horse, 11-in. cut, wood beam; it turns its furrow slice perfectly. Price, with extra steel point, weight, 66 lbs., \$5.75.

THE CHATTANOOGA-HANCOCK DISC PLOWS

Single Disc Plow



24-inch Disc,

\$45.00

Weight,
600 lbs.

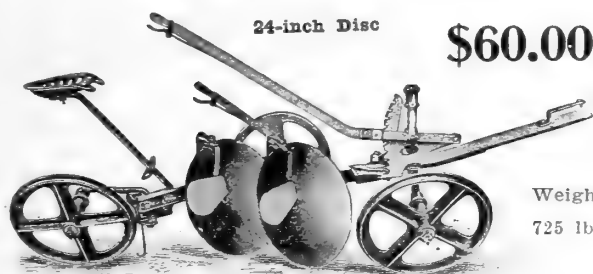
It handles more cubic inches of soil with less draft than any other plow made; it turns under stalks, trash and weeds completely; it breaks up "hard pan" and pulverizes the soil. It leaves the ground at bottom of furrow porous and natural; it prepares the soil to withstand either a wet or dry season; it insures better crops than any other method of plowing.

It is so simple in design, so few in parts and so perfect in construction that anyone can operate it.

It is not a sod plow; it is a pulverizer. You cannot pulverize sod. Everywhere else it is all right.

Single Disc, with double and triple trees, price.....**\$45.00**
Double Disc, double and triple trees, price.....**60.00**

Double Disc Plow



24-inch Disc

\$60.00

Weight,
725 lbs.

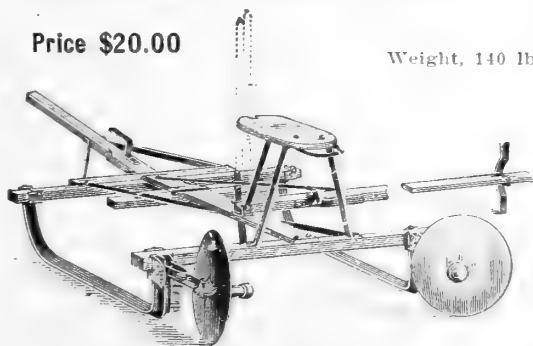
What is said about the single disc pertains to the double. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, except turf land.

Darnell's Improved Patent Furrower and Marker

Price **\$20.00**

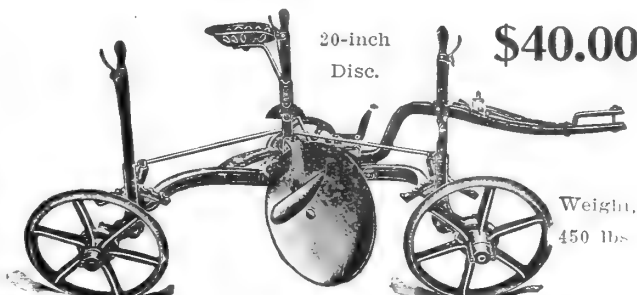
Weight, 140 lbs.



Strong, light and durable. A half-dozen tools in one. Runs steadily and cannot be choked. Adjustable throughout. Broad runners of wrought T-angle iron with rib to prevent sliding on side hill. Revolving discs or furrows 15 inches in diameter, with chilled hub and steel axle.

Price **\$20.00.** Neck Yoke and Whiffle Trees..**\$2.50**

Chattanooga Reversible Disc Plow



20-inch
Disc.

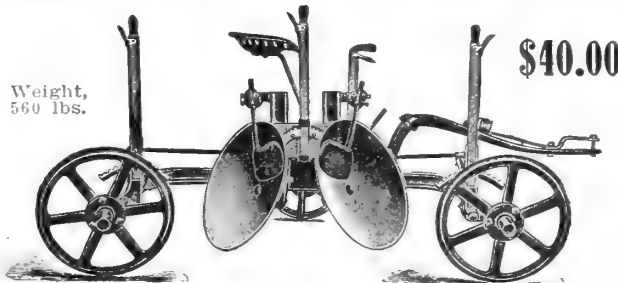
\$40.00

Weight,
450 lbs.

The "Chattanooga" is the only successful Reversible Disc Plow built. On steep hillside, where a team can walk and draw a plow, it works perfectly. The combination of features in **The Chattanooga Reversible** makes it the most valuable of all **Disc Plows**. It can be used right or left hand, plowing around the land, or **Reversible**, throwing furrows all one way. Will plow between terraces **without leaving a water-furrow**.

Will do good work, not only in hard, dry and sticky ground, but will do good work in any fallow ground, either clean or trashy, on hillsides or level land; in short, it will work anywhere, at any time, when plowing can be done, except in sod land. We warrant against breakage for twelve months caused by defects in material or workmanship. Price, **\$40.00.**

Twin Disc Reversible Plow



Weight,
560 lbs.

\$40.00

It is an accepted fact today that the **Reversible Disc Plow** is the most practical, general purpose plow for level and rolling land or hillsides—the conditions found on nearly every farm.

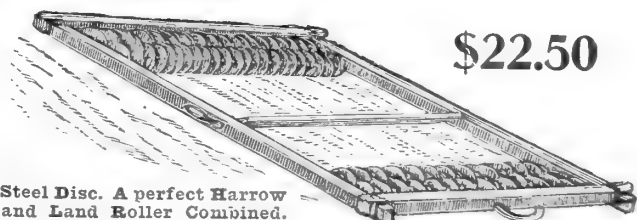
Twin Disc Reversible Plow combines the two essential features that interest plowmen—**Simplicity and Economy**.

In reversing the plow remains stationary; the team turns the tongue and operator. The discs are raised and lowered with the center lever. **This is Simplicity.**

Twin Disc Plow costs no more than Reversible Disc Plow with only one Disc. **This is Economy.**

The Twin Disc Reversible Plow does its work coming and going. **Price \$40.00**

Meeker Smoothing Disc Harrow



\$22.50

Steel Disc. A perfect Harrow and Land Roller Combined.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price, **\$22.50.** Special Discount for Cash.

GENUINE FARMERS' FRIEND PLOW

PRICES GENUINE FARMERS' FRIEND PLOW

No. 1/2	\$2.75	No. 8 R. and L., with	
No. 5	2.75	rod	\$6.25
No. 7 R.	4.35	No. 9 R. and L., with	
No. 7 L.	4.75	clevis	5.75
No. 7 1/2 R.	4.75	No. 1 Hillside	4.00
No. 8 R. and L. with		No. 2 Hillside	5.25
clevis	5.60	No. 3 Hillside	5.50
Plain Castings, per lb., 5c.		Polished Castings, lb., 5c.	

"BOY" DIXIE PLOW

"Boy" Dixie	\$2.25
No. X	2.55
No. I	2.75
No. II	4.35
No. 2	5.63
Plain Castings, per lb., 5c.	

GIRL CHAMPION PLOW

No. "Girl"	\$3.25
No. A	3.50
Nos. AA and 2	3.75
Castings, per lb., for	
"Boy," Dixie and "Girl"	
Champion, Plain, 5c.; Polished, 6c.	

MINOR & HORTON HIGH STANDARD PLOWS

No. 18	\$3.00	No. 18 1/2	\$3.25	Plain Castings, lb., 5c.
No. 19	3.50	No. 19 1/2	4.75	Polished Castings, lb., 6c.

WHITE'S CLIPPER PLOWS

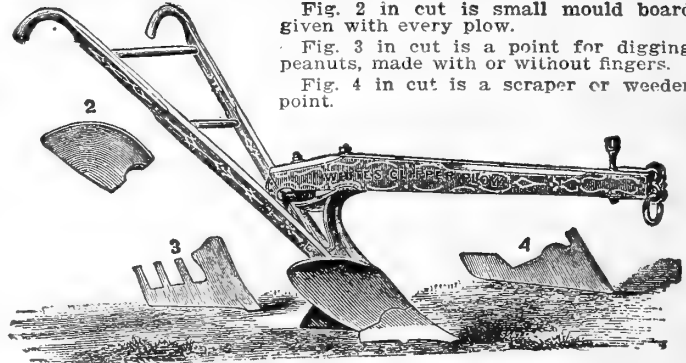


Fig. 2 in cut is small mould board given with every plow.

Fig. 3 in cut is a point for digging peanuts, made with or without fingers.

Fig. 4 in cut is a scraper or weeder point.

Prices Clipper Plow and Extras, Polished and Blued

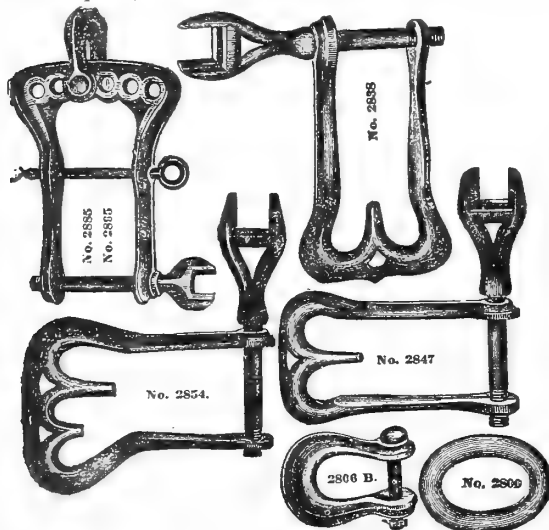
No. Boy Junior, Cast, One-Horse	\$3.00
No. Boy, Cast, One-Horse	\$3.00
No. 1 1/4, 1 1/2 and 2, Cast, One-Horse	3.25
No. 2 1/4 and 3, Cast, One-Horse	3.50
No. 7, 8 and 11, Two-horse	5.25
No. 12, Cast, Two-Horse	5.50
Clipper Cast Point for No. 12 Steel Mouldboard .....	.25
Clipper Steel Point, No. 12 .....	.60
Clipper Steel Mouldboard, No. 12	2.00
Cast Point for No. 2 Clipper Steel and Chilled Plow .....	.15

PLOW HANDLES—Not Finished

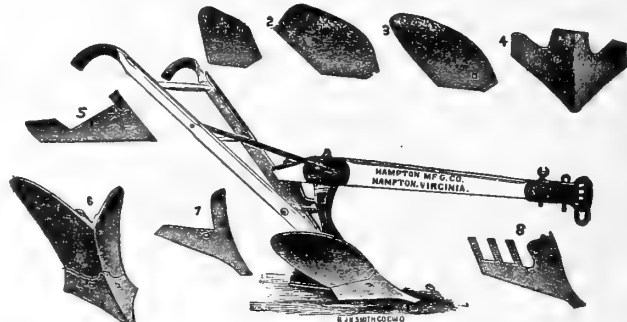
1 1/8 x 2 inches, 4 1/2 feet long, per pair	\$.30
1 1/8 x 2 inches, 5 feet long, per pair .....	.35
1 1/4 x 2 1/4 inches, 5 feet long, per pair .....	.40
1 1/4 x 2 1/4 inches, 6 feet long, per pair .....	.45
1 1/4 x 2 1/4 inches, 7 feet long, per pair .....	.50
1 1/2 x 2 1/4 inches, 5 feet long, per pair .....	.50
1 1/2 x 2 1/4 inches, 5 1/2 feet long, per pair .....	.60
1 1/2 x 2 1/2 inches, 6 feet long, per pair .....	.65
1 1/8 x 2 inches, Side Bend, per pair .....	.40

MALLEABLE CLEVISES

No. 2854. 2-in. beam; 5 1/2-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on Girl Champion and similar class Plows. List price, doz. \$1.50 Retail price, each.15	No. 2847. 2-in. beam; 5 5/8-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on "Boy" Dixie and similar cast Plows. List price, doz. \$1.50 Retail price, each.15
---	--



HAMPTON CAST PLOWS



Hampton No. 1 C or Jersey and Attachments

With every Hampton No. 1 C Plow is sent three extra moulds and one extra share and wrench, as follows:

No. 1 B-Mould. A regular one-horse mould-board used on all regular No. 1 plows.
Cabbage Mould—Smaller than No. 1 B—Particularly adapted to the second cultivation of all crops.

Truck-Mould—A small mouldboard suitable for the early cultivation of all truck.

All of above are included in the price. \$4.50

EXTRAS.

Fig. 7 in cut—Cutter or sod plant point. . . \$.60

Fig. 8 in cut—Potato-digging attachment.90

Fig. 6—Double mould. 2.50

HAMPTON BOY PLOW.

Price, with truck and mouldboard, wrench and point. \$3.00

HAMPTON PLOW, No. 1 REGULAR.

This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench. Price, complete. . . \$3.50

HAMPTON PLOW, No. 5.

This is a medium 2-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra. Price, plain plow. . . \$6.00
Other castings on all Hampton Plows, 5c. lb.
Liberal Discount to the Trade.

2800 Malleable Plow Links.

2806 B END CLEVIS, OR SHACKLE.

No. 2800.
3-in. long, 2 1/2-in. wide.
List price, doz.60c.
Retail price, each.5c.

No. 2806 B.
3/4-in. inside measure;
3-in. extreme length.
List price, doz.80c.
Retail price, each.8c.

REPAIRS FOR WIARD PLOWS

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	R. H. only	1 Horse	\$.25	\$.25	\$.75
13	"	"	.35	.50	1.50
10	"	"	.35	.50	2.00
19	"	"	.40	.75	3.00
16	"	"	.40	.75	3.00
18	"	"	.40	.75	3.50
26 1/2	"	or 3 Horse.	.40	.75	3.50
27	"	"	.40	.75	3.25
28	L. H.	"	.40	.75	3.50
116	Hillside	"	.55		3.00
126	"	"	.55		2.50
130	"	"	.55		2.50

REPAIRS FOR SYRACUSE PLOWS

Nos.	Wood Beam Chilled Plows.	Cutter Shares.	Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points
44	R. H. only	1 Horse	\$.20	\$.40	\$ 1.35	\$ 1.25	\$ 1.35			
50	"	"	.20	.50	1.40	1.50	1.75			
51	"	"	.20	.50	1.85	1.50	2.00		\$.35	\$.10
52	"	"	.20	.50	2.25	1.50	2.25		.35	.10
53	"	1 or 2 H.	.40	.30	2.50	1.50	2.50		\$.25	\$.40
54	"	Light 2.	.45	.35	2.75	1.75	2.50		.30	.45
55	"	Med. 2.	.45	.35	3.00	1.75	2.50		.30	.45
56	"	Reg. 2.	.50	.40	3.25	1.75	2.50		.35	.50
57	"	or 3 H.	.50	.40	1.00	2.25	1.75		.35	.50
95	L. H.	2 Horse	.45	.35	.80	3.00	1.75		.45	.10
96	"	"	.50	.40	.85	3.25	1.75		.50	.10
97	"	or 3 H.	.50	.40	1.00	3.25	1.75		.50	.10
502	"	"		.40	.85	3.25	1.75		.50	.10
503	"	"		.35	.80	3.00	1.75		.45	.10
601	R. H.	"		.40	1.00	3.25	1.75		.50	.10
602	"	"		.40	.85	3.25	1.75		.50	.10
663	"	"		.35	.80	3.00	1.75		.45	.10

Repairs for Syracuse Contractors' Plows

Nos.	For Contractors' Plows, see page 166.	Steel shares.	Lands.	Moulds.	Beams.	Standards.	Shins.
99		\$ 5.00	\$ 2.25	\$ 3.50	\$ 8.00	\$ 10.00	\$ 1.00
98		5.00	2.25		11.00		
1	Heavy Cast	.45	.85	3.25	5.00		

Prices of Repairs for Roland Chilled Plows

Numbers.	Slip No. on Nose.	Mould-boards.	Land-sides.	Standard.	Solid share.	Slip shares.	Slip nose.	Cutter.
E1 and E3	E	\$ 3.25	\$.85	\$ 2.75	\$.40	\$.50	\$.10	\$.25
D3 and D4	D	3.00	.85	2.50	.35	.45	.10	.25
13A	A	2.75	.75	2.25	.30	.40	.10	.20
B3X	X	1.85	.60	1.65	.25	.30	.10	
A3X	X	1.35	.45	1.35	.20	.30	.10	

Nos. A3, B3 and 13	\$.20
All other numbers, 2-horse	.30
Three-horse	.50
Shackles	.10

Nos. A3, B3 and 13, complete, per set	1.35
All other numbers, complete, per set	1.75
Single Handles, each, all numbers	.55
Rounds, per pair	.10

No. A3	.25
Nos. B3 and 13	.30
All other numbers	.50

WRENCHES.	
Wrenches	\$.15
JOINTERS.	
Two and three horse	2.00
Holders	1.00
Standards	.75
Mouldboards	.40
Points	.15

WHEELS.	
Complete	1.00
Standards	.50
Wheel, only	.50
Wheel, axle	.25

BOLTS.	
For Mouldboards, Land-sides, Joints, Coulter Standards, End of Handle Brace	.03
For Wheel Arm (hook), Wheel through Beam Side, Rolling Coulter Axle, Back End of Beam, Joints, and Coulter Holder (fronts), and Wheel Hubs	.07
For spreading bottoms of Handles	.10
For Standard through Beam	.10

REPAIRS FOR SOUTH BEND PLOWS

Nos.	Shares.	No. Horse.	Shares.	Lands.	Moulds.	Handles, sets complete.	Standards.	Wood Beams.	Shins.
62	Solid	1 H. R. H. only	\$.20	\$.30	\$ 1.00	\$ 1.00	\$ 1.25	\$ 1.50	
1 B	"	1 Horse	.30	.40	1.75	1.25	1.50	1.75	
2	"	"	.35	.75	2.50	1.25	2.25	.90	\$ 1.20
2 1/2	"	"	.35	.75	3.00	1.25	2.50	.90	
4	"	"	.35	1.00	3.00	1.50	3.00	1.00	
10	"	"	.40	1.00	3.50	1.50	3.50	1.25	
15	"	"	.40	1.00	3.50	1.50	3.50	1.25	
3	Slip	"	.45	1.00			3.00	1.25	
4	"	"	.45	1.00					
10	"	"	.50	1.00					
15	"	"	.50	1.00					

Jointers, complete, \$2.00. Wheels, complete, \$1.00. Rolling Coulters, \$3.50. Handles, single, all numbers, 50c. each. Other extras not named here can be furnished; price on application. Standing Coulters, \$2.00. Slip Points, each, 10c.

Extras for Iron Beam Syracuse Plows

Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Moulds chilled.	Beams.	Slip shares.	Slip points.
3-78	R. H. only	2 Horse	\$.35	\$.45	\$.65	\$ 3.00	\$ 3.75	\$ 1.50
3-78	"	"	.40	.50	.70	3.25	4.00	.10
1-78	"	"	.40	.50	.75	3.25	4.25	.10
10-78	"	"	.45	.55	.85	3.50	4.75	.10
20-78	L. H. only	"	.40	.50	.75	3.25	4.25	.10
30-78	"	"	.45	.55	.85	3.50	4.75	.10

Extras for Steel Beam Syracuse Plows

Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares.	Slip points.
1	R. H. only	2 Horse	\$.40	\$.50	\$.85	\$ 3.25	\$ 3.50	\$ 2.75	\$.50
15	"	"	.40	.50	.75	3.25	3.50	3.00	.10
21	L. H. only	2 or 3 H.	.40	.50	1.00	3.25	4.00	3.50	
35	"	3 Horse	.45	.55	1.00	3.75	4.00	3.50	.10

Jointers, complete, chilled, \$2.00. Wheels, complete, \$1.00. For Heavy Shares, add 5c. each. Joints Points for any of above Syracuse Plows, 20c. Syracuse Base Bolts, 3c.

PLOW BOLTS

Length.	List.	Retail.	List.	Retail.
1 1/4	\$ 2.00	3c.	\$ 3.50	3c.
1 1/2	2.10	3c.	3.70	3c.
1 3/4	2.20	3c.	3.90	3c.
2	2.30	3c.	4.10	3c.
2 1/4	2.40	3c.	4.30	3c.
2 1/2	2.50	3c.	4.50	3c.
2 3/4	2.60	4c.	4.70	4c.
3	2.70	4c.	4.90	4c.
3 1/4	2.80	4c.	5.10	4c.
3 1/2	2.90	4c.	5.30	4c.
3 3/4	3.00	4c.	5.50	4c.
4	3.10	4c.	5.70	4c.

For Bolts
Longer Than
Listed,
Write for
Prices

For Carriage and Machine
Bolts

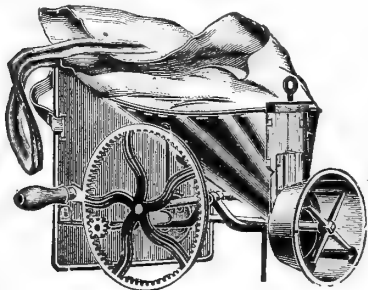
See Page 143

CAHOON'S BROADCAST SEED SOWER

FOR SOWING CLOVER, TIMOTHY, MILLET, OATS, WHEAT, HEMP, BARLEY, RYE, RICE, BUCKWHEAT, ETC. STANDARD SEEDER OF THE WORLD—A MODEL FOR ACCURACY AND DURABILITY—MALLEABLE IRON FRAME—STEEL HOPPER AND GATE—BRASS DISCHARGE.

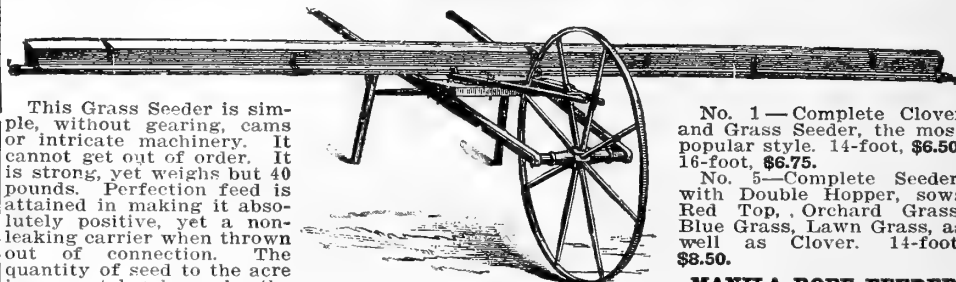
Factory List Price, \$3.50. Our Special Price, \$3.00 Cash With Order.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet.



THOMPSON'S CLOVER AND GRASS SEEDER

SOWS 14 TO 16 FEET WIDE, ANY AMOUNT DESIRED PER ACRE. WILL SOW 20 TO 25 ACRES PER DAY.



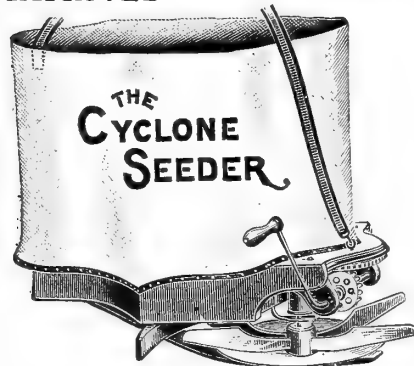
This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order. It is strong, yet weighs but 40 pounds. Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$6.50. 16-foot, \$6.75.

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, \$8.50.

MANILA ROPE FEEDER.

THE ORIGINAL IMPROVED CYCLONE



Although this machine has been much improved and simplified in recent years, yet the same general principles which characterized it when sold from \$10.00 to \$12.00 each are still retained. It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly.

Price.....\$1.50

CHICAGO SEEDER

This machine is sometimes called the Fiddle Bow Seeder. Has few wearing parts; not liable to get out of order, and generally recognized as the best Bow Seeder made. Price, \$1.25.

ROYAL CLOVER AND GRASS SEEDER

These Seeders are similar to the Thompson above, except they have Chain Drive.

No. 11—14-foot.....\$6.50

No. 11—16-foot.....6.75

No. 12—14-foot.....8.50

LIGHTNING SEED SOWER

Will Sow 60 Acres per Day of Clover, Timothy, Millet, Alfalfa, Flax, Etc.

Cheap, durable, weighs 12 oz. Simple, no repairs. Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground. Price, \$1.25.

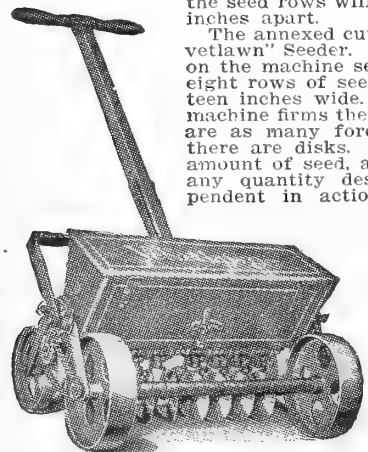


sition from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground. Price, \$1.25.

"VELVETLAWN" SEEDERS

MAKE PERFECT LAWNS AND GREENS

\$20.00



By lapping half the width of the machine, the seed rows will be one inch instead of two inches apart.

The annexed cut shows front view of "Velvetlawn" Seeder. There are eight single disks on the machine set two inches apart. Plants eight rows of seed at a time, or a strip sixteen inches wide. The roller at the rear of machine firms the earth over the seed. There are as many force feeds on the Seeder as there are disks. Every feed sows an equal amount of seed, and feeds can be set to sow any quantity desired. Each disk is independent in action and automatically conforms to the inequalities of the ground.

All old sod is root bound. The cutting action of the disks relieves this condition, cultivates the grass roots, and at the same time plants new seed IN THE SOD—NOT ON TOP.

Each and every feed on the "VELVETLAWN" Seeder sows an absolutely equal amount of seed. Therefore all

of the seed furrows contain the same quantity.

One movement of the Gauge Lever automatically changes all the feeds. The operator can sow any amount of seed desired.

Seed can be sown when the conditions are right—wind or no wind. There is no waiting for a "still" day. In addition to sowing grass seed and clover, is also admirably adapted for drilling all small seeds, such as:

Onion, Radish, Lettuce, Carrot, Etc.

By placing covers over the feed openings in the hopper bottom.

SOWING FERTILIZERS.

The machine will not sow seed and fertilizer at the same time. Always sow the fertilizer first. Then empty the hopper and sow the seed.

We do not recommend commercial fertilizers or acid phosphates to be sown with this machine, for the reason that they cause corrosion and are very liable to cement the working parts of the Seeder.

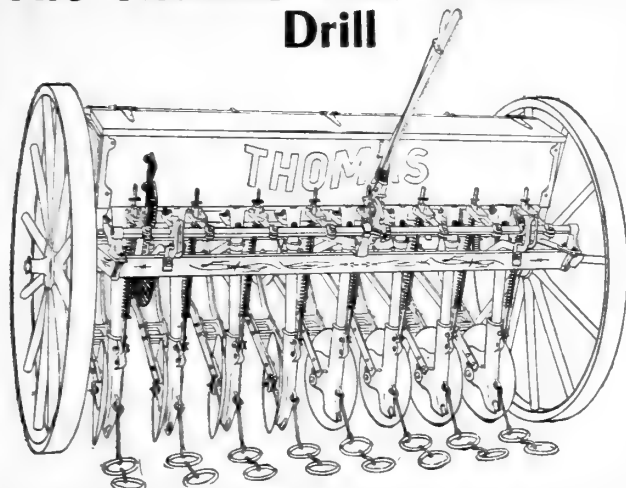
The best fertilizers that can be used in sod or new grading are dry ground sheep manure, dry ground lime, dry bone meal and dry screened wood ashes.

This machine opens furrows in the sod or soil, and the fertilizing materials are conducted into the trenches without being blown over the premises.

If there was no other use for the "Velvetlawn" Seeder than to drill fertilizer in greens and lawns, the reasonable purchase price would never be regretted.

Our Special Price, \$20.00.

The Thomas Disc Fertilizer Drill

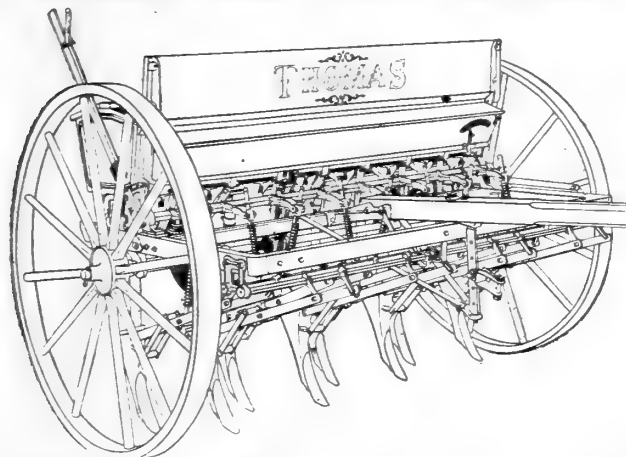


A new fertilizer feed specially adapted to this particular climate is used on this drill. (Write for catalogue describing this fertilizer feed). The device for changing quantity is entirely new and has been thoroughly tested, and consists of a simple speed gear direct and adjustable mounted on the axle. The flow is stopped automatically when the discs are raised. When spotting shocks in sowing corn ground, can be thrown out of gear without raising the discs.

DISC BOOT.—Our Delivery Disc Boot is specially designed and very complete, and prevents choking or clogging in any soil. There is a chilled iron spindle which will last for years, if it will ever wear out. The scrapers for discs are of spring steel, and are adjustable.

8-Disc Drill.....	\$77.50	10-Disc Drill.....	\$87.50
9-Disc Drill.....	\$82.50	11-Disc Drill.....	\$92.50

Thomas Hoe Drill WITH FERTILIZER ATTACHMENT.



8-Hoe Pin.....	\$72.50	8-Hoe Spring.....	\$75.00
9-Hoe Pin.....	\$77.50	9-Hoe Spring.....	\$80.00
10-Hoe Pin.....	\$82.50	10-Hoe Spring.....	\$85.00
11-Hoe Pin.....	\$87.50	11-Hoe Spring.....	\$90.00
12-Hoe Pin.....	\$92.50	12-Hoe Spring.....	\$95.00

Grain Drill Points

We are one of the largest Distributors of GRAIN DRILL POINTS AND TUBES in the Country.

For all leading Grain Drills, including York Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always

best, if possible, to send an old sample. If our customers will carefully comply with the foregoing directions it will be a mutual saving of an immense amount of time.

Price, Points, each.....10c.

York Grain and Fertilizer Drill



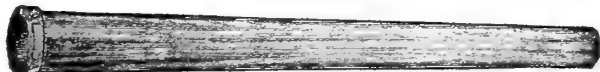
Both the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed, and can be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

8-Hoe Pin.....	\$65.00	10-Hoe Spring.....	\$75.00
9-Hoe Pin.....	\$68.00	11-Hoe Spring.....	\$78.00
10-Hoe Pin.....	\$71.00	8-Disc Drill.....	\$70.00
11-Hoe Pin.....	\$75.00	9-Disc Drill.....	\$75.00
8-Hoe Spring.....	\$68.00	10-Disc Drill.....	\$77.00
9-Hoe Spring.....	\$71.00	11-Disc Drill.....	\$80.00

Grain Drill Tubes



Plain Top.



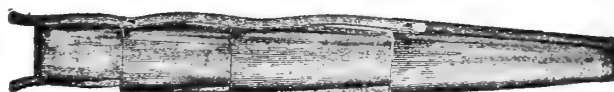
Ring Flange.



Bell Top.



Flat Flange.



Galv. Conductor.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether ring flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom.

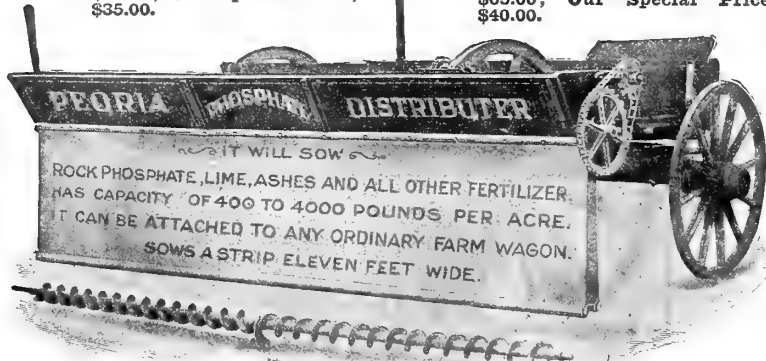
Plain Tubes, each.....	25c.
Bell Top Tubes, with strap, each.....	35c.
Flat or Ring Flange Tubes, each.....	30c.
Galvanized Conductors, each.....	40c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Peoria Phosphate Distributer

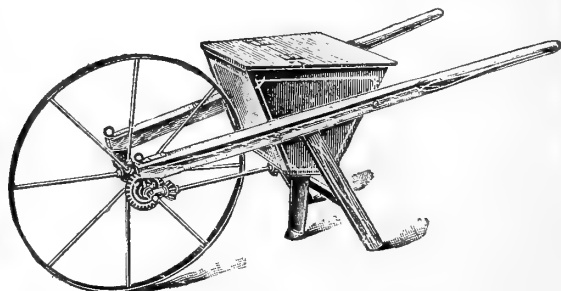
8 ft. Complete, List Price, \$60.00; Our Special Price, \$35.00.

11 ft. Complete, List Price, \$65.00; Our Special Price, \$40.00.



The quantity to be sown is regulated by the lever at the left hand end of the Distributer, which serves to open the feed plate so that quantities from 400 to 4000 pounds can be distributed. The entire feed plate can be removed for cleaning by loosening one bolt. Machine when ready for shipment weighs 325 pounds.

Baltimore Pea and Fertilizer Drill



The agitator is new style, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disk below. A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage. List Price, \$9.50. Our Special Price, \$6.00.

NONPAREIL LIME AND FERTILIZER SOWER



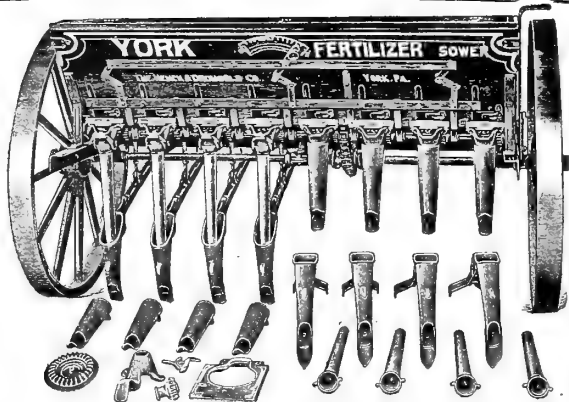
Weight, 260 pounds.

The cut shows method of cleaning screen of such material as will not go through; also the construction of the agitator.

Sows lime, ashes, salt and all kinds of commercial fertilizer in quantities to suit the operator.

The Nonpareil has only three bearings, one lever, cast-iron box ends, steel wheels with staggered spokes, a powerful agitator. It is light, durable, strong.

It is low in price, simple in construction; low down, and easy to fill, and very light draft. List Price, \$55.00. Our Special Price, \$35.00.



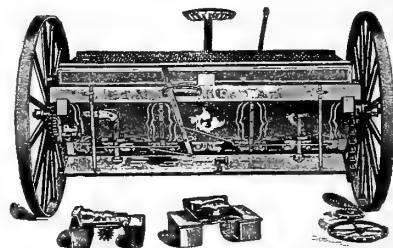
Saves putting in with Harrow or Cultivator. Machine will sow and put in at one operation; nothing lost in the air. Will sow 500 to 600 pounds per acre.

	List Price.	Our Special Price.
8-Tube 8-in. Distributor, less Boots; holds 535 lbs.	\$80.00	\$47.50
8-Tube 8-in. Distributor, with Boots; holds 535 lbs.	107.00	62.50
10-Tube 8-in. Distributor, less Boots; holds 675 lbs.	90.00	55.00
10-Tube 8-in. Distributor, with Boots; holds 675 lbs.	123.00	72.50

Above prices are with single tongue, double and single trees and neck yoke. For same with extra tongue, double trees and neck yoke for use with three horses abreast, add List Price, \$8.00; Our Special Price, \$5.00.

We recommend for the ten-hoe the two tongues if drill boots are wanted.

The Baltimore Lime and Ash Spreader



A strong and substantial machine, with spreading capacity of from 15 to 80 bushels to the acre. Quantity can be regulated at will of the operator. Wheels are 4½ feet high. Has six feeds and will spread 7½ feet wide. Box or hopper is fitted with powerful agitator, which breaks any arch formed by lime, ash or commercial fertilizer. Lime is fed out on a distributing board or shaker, which can be set at different elevations, and this, in vibrating, distributes the lime evenly and regularly. The lime falls but a few inches, thus avoiding dust to either driver or horses. If the wind is very strong an apron can be tacked, if desired, in front of the hopper. Ordinary lumps going through the attachment sieve will not interfere with the sowing; also furnish an extra cap and large wheel, whereby fertilizers of every description and plaster can be sown in quantities as low as 300 pounds per acre, and, if coarse, 250 pounds per acre. Hopper holds 18 bushels slaked lime.

List Price.....\$135.00
Our Special Price.....75.00

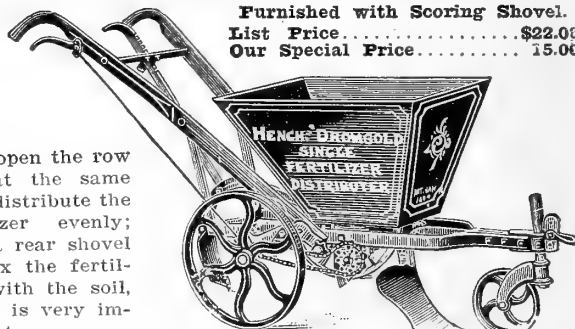
Special Price for Cash.

SINGLE ROW FERTILIZER DISTRIBUTER

Furnished with Scoring Shovel.

List Price.....\$22.00
Our Special Price.....15.00

To open the row and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important.



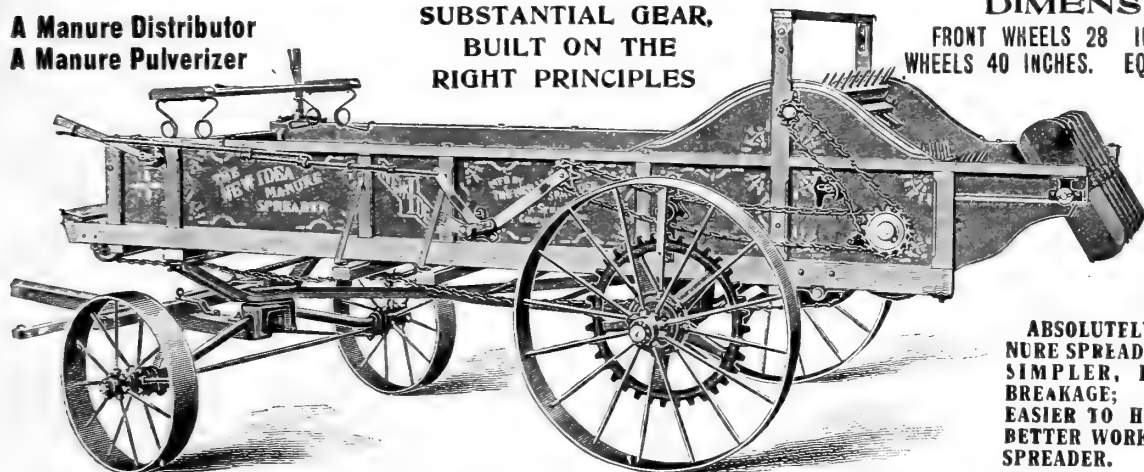
New Idea Manure Spreader

**A Manure Distributor
A Manure Pulverizer**

**SUBSTANTIAL GEAR,
BUILT ON THE
RIGHT PRINCIPLES**

DIMENSIONS

**FRONT WHEELS 28 INCHES WITH HIND
WHEELS 40 INCHES. EQUIPPED WITH TWO-
HORSE HITCH.
EXTRAS: BRAKE,
THREE-HORSE
HITCH AND TRAC-
TION BANDS.**



**ABSOLUTELY THE BEST MA-
NURE SPREADER EVER OFFERED.
SIMPLER, LESS LIABLE TO
BREAKAGE; LIGHTER DRAFT.
EASIER TO HANDLE AND DOES
BETTER WORK THAN ANY OTHER
SPREADER.**

The **New Idea Spreader** is built like a wagon with reach pole gear and has a solid bottom to body, making it stronger and lighter draft than others. There is no heavy bottom to return and the whole machine is under control of two levers; one to regulate the number of loads per acre, the other to throw the machine in and out of gear. After the feed regulating lever is set, the operator has only the one lever to attend to. This is a point for thinking farmers, and this alone makes the **New Idea** very much more desirable than any other spreader. Front wheels turn under the body up to the reach pole, making it a short turn machine. This is another valuable feature.

The **New Idea Spreader** is simpler than any other make. It has a straight all-chain, chain drive with not a cog wheel, secondary shaft, clutch or additional part in it. The pull is direct from the axle sprocket to the cylinder sprocket. There are no clutches nor cogs to wear out or break. This feature will appeal to every farmer who has used a Manure Spreader. The **New Idea** is most convenient and is ready for loading and no returning of the conveyor is necessary. It is the only Spreader on which the load can be rounded up—you can round up the load on the **New Idea** and do first-class work without likelihood of breakage.

The **New Idea** does better work than any other make. It is the only spreader constructed with double beater, and it pulverizes the manure thoroughly and distributes the same evenly in a wide stream. The greatest argument in favor of the **New Idea** is to see it work. Drop us a card, and if there is one in your neighborhood we will tell you who has it so that you can look at it. It will track with the ordinary farm wagon, which is a big point in its favor, and at the same time it spreads wider than the wide body spreaders. As stated above, the front wheels will turn under, making it a very short turn machine. If you are in the market for a Manure Spreader it will pay you to buy no other kind, because the **New Idea** will save you time and money.

In comparing the capacities of the **New Idea Manure** Spreaders with those of other makes, bear in mind that on account of your being able to round up the load on the **New Idea Manure** Spreaders, these machines will handle more manure, size by size, than any other Spreaders on the market.

READ CAREFULLY THE FOLLOWING.

It pulverizes the manure thoroughly and distributes the same evenly and in a wide stream.

Should the pulverizing cylinder have missed or not fully fired up a particle of manure, it will get a second pulverization from the rapid rotating distributor.

Its front and hind axles are connected by a strong reach or coupling pole, well braced, same as a farm wagon.

Can load the machine up to 26 inches in heavy manure, and in light material as high as 32 inches.

PRICES OF NEW IDEA MANURE SPREADERS.

55-Bushel capacity, with Doubletrees and Neck Yoke.....	\$120.00
75-Bushel capacity, with 3-Horse Eveners	125.00
100-Bushel capacity, with Doubletrees and Neck Yoke.....	135.00
Brake, additional.....	5.00
Traction Band, additional.....	2.50

SPECIAL DISCOUNT FOR CASH.

Write for Special Circular of New Idea Spreader.

GRITCO HOIST

No. 37.—Two sheaves above, two sheaves below; for ½-inch rope; capacity 800 lbs. One man can lift 400 lbs. 3-inch sheaves. **Factory list, \$4.00. Our Special Price, \$2.50.**



Rope
Not
Included
in Price

IRON-STRAPPED BLOCKS



Size of Sheave, Inches.	Diam. Rope, Inches.	Length Shell, Inches.	Common Iron Bushed.						Patent Roller Bushed.					
			Single.	Double.	Triple.	Single.	Double.	Triple.	Single.	Double.	Triple.	Single.	Double.	Triple.
3 1/4 x 1 1/2	3/4	6 ...	\$1.10	\$.55	\$2.00	\$1.00	\$2.90	\$1.45	\$1.75	\$2.85	\$1.45	\$4.40	\$2.20	\$2.20
4 1/4 x 1 1/2	7/8	7 ...	1.20	.65	2.40	1.20	3.50	1.75	1.70	.85	3.35	1.70	5.00	2.50
4 3/4 x 1 1/2	1	8 ...	1.65	.85	2.85	1.45	4.25	2.15	2.25	1.15	4.15	2.10	6.00	3.00
5 1/4 x 1 1/2	1	9 ...	1.85	.95	3.40	1.70	4.75	2.40	2.50	1.25	4.70	2.35	7.25	3.70
6 1/4 x 1 1/2	1 1/4	10 ...	2.75	1.40	4.50	2.25	6.25	3.15	3.50	1.75	6.00	3.00	8.50	4.25
7 1/4 x 1 1/2	1 1/4	11 ...	4.45	2.25	7.50	3.75	10.65	5.35	5.30	2.65	9.20	4.60	13.20	6.60
8 x 1 1/2	1 1/4	12 ...	4.45	2.25	7.50	3.75	10.65	5.35	5.30	2.65	9.20	4.60	13.20	6.60

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HENCH & DROMGOLD'S CORN PLANTERS

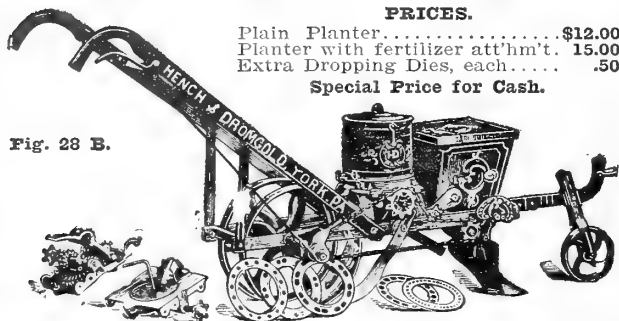


Fig. 28 B.

PRICES.
 Plain Planter.....\$12.00
 Planter with fertilizer att'h'm't. 15.00
 Extra Dropping Dies, each......50
Special Price for Cash.

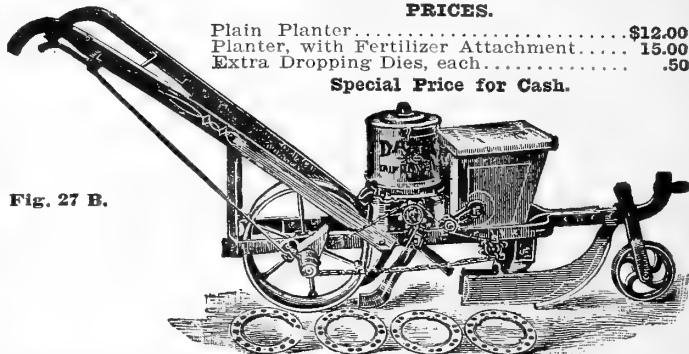


Fig. 27 B.

PRICES.
 Plain Planter.....\$12.00
 Planter, with Fertilizer Attachment..... 15.00
 Extra Dropping Dies, each......50
Special Price for Cash.

In all of these Planters the top part of corn-box is made of heavy sheet iron, riveted to a cast ring which is hinged to the bottom, and by loosening one thumb-nut can be turned to the side and the rings changed and the bottom cleaned out nicely.

On all machines where fertilizer attachments are used the fertilizer box sets lower on the frame, has less number of pieces, less complicated and the most positive force feed of any Planter on the market. Will sow from 20 pounds to 450 pounds per acre, and if a larger quantity is wanted use the five-point chain wheel, and it will sow 525 pounds per acre.

NOTE.—If the rows are marked out closer than three feet six inches it will sow more per acre.

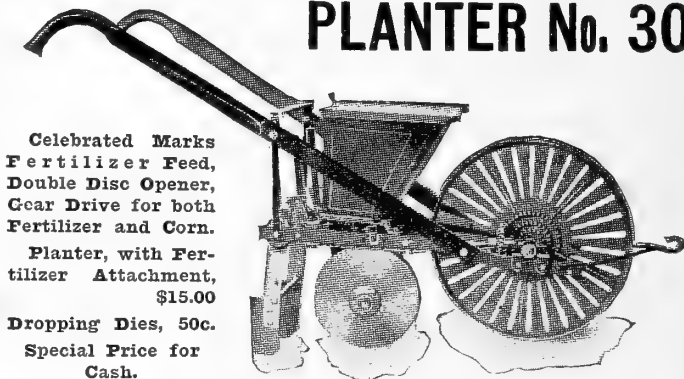
It has the same dropping device and fertilizer feed as our other Planter.

All of the H. & D. Planters have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn and is more durable.

Three Chain Wheels are furnished with plain Planter and four with fertilizer. The six-point chain wheel drops one grain 13 inches or two grains 26 inches apart. The seven-point drops one grain 15 inches or two grains 30 inches apart. The eight-point wheel drops one grain 17 inches or two grains 34 inches apart. The nine-point wheel drops one grain 19 inches or two grains 38 inches apart. We can also furnish rings for planting Peas, Beans, Ensilage Corn, and by using the different chain wheels can plant any desired amount.

THESE PLANTERS (FIGS. 28 B AND 27 B) CAN BE FURNISHED EITHER WITH RUNNER OR PLOW FOR OPENING FURROW, AND WITH EITHER DOUBLE OR CONCAVE WHEEL. ALSO BOTH WITH AND WITHOUT FERTILIZER ATTACHMENT. READ THIS CAREFULLY, AND ALWAYS SPECIFY THE STYLE WANTED.

SINGLE ROW DISC CORN PLANTER No. 30



Celebrated Marks
 Fertilizer Feed,
 Double Disc Opener,
 Gear Drive for both
 Fertilizer and Corn.

Planter, with Fertilizer Attachment,
 \$15.00

Dropping Dies, 50c.

Special Price for Cash.

GRITCO HAND CORN PLANTER



In the Gritco there is no chance of cracking the corn, beans or other delicate seed, because of the Chinese bristle brush cut-off. No casting about the planter. The stamped steel slide is formed on a segment of the circle, whose center is the pivot of the blades. Means are provided to plant pumpkin seed at the same time with the corn. Slide quickly adjusted for different sized seeds. Galvanized iron hopper, smooth, polished hardwood handle.....\$1.25

American Hand Corn Planters

Are fitted with Sheffield's famous patent adjustable seed disc and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping discs ever used in corn planters of any description. Price, \$1.75.

ACME ROTARY AUTOMATIC HAND CORN PLANTER

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop.....\$1.50

Check-Rower Wire



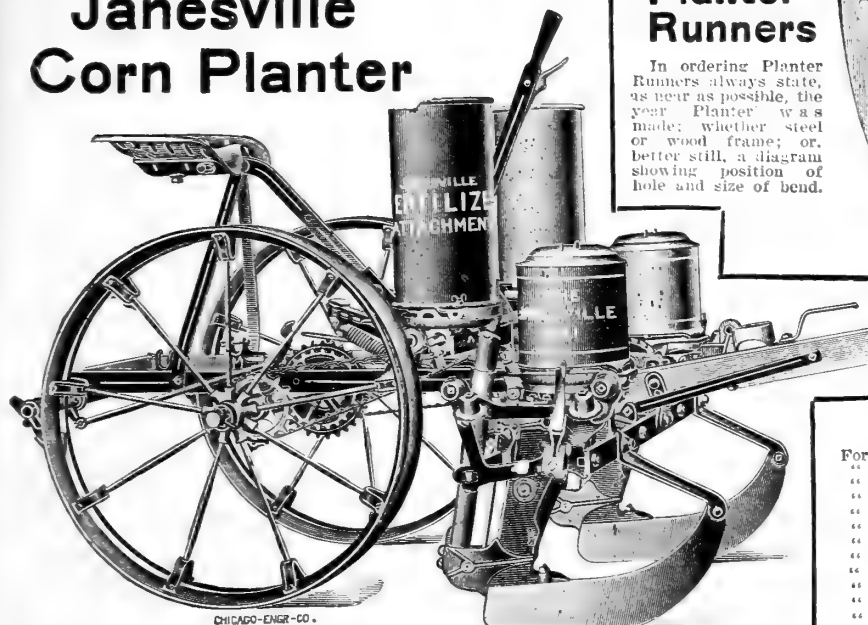
For All the Leading Planters.

Carry in stock 3 ft. 6 in. and 3 ft. 8 in.
 Price, per rod, 6c.

**FOR CORN GRADERS SEE NEXT PAGE.
 UP-TO-DATE FARMERS GRADE THEIR CORN BECAUSE IT PAYS.**



Janesville Corn Planter



CHICAGO-ENGR-CO.

	List Price.	Our Special Price.
Nos. 5 and 7—Plain Planters, with Check Rower, 80 rods Wire, Edge Drop only.....	\$69.00	\$40.00
Nos. 5 and 7—Same as above, with both Edge and Flat Drop Plates.....	71.00	42.50
Nos. 5 and 7—Plain Planters, with either Edge or Flat Drop Plates, without Check Rower.....	59.00	35.00
No. 8—Plain Planter, Drill Drop only, without Check Rower.....	59.00	35.00
Fertilizer Attachment for any of the above, add.....	20.00	10.00

List Price. Our Special Price.

The Janesville Planter is made adjustable in width 3 feet to 4 feet. After the corn planter was developed so as to retain a high average per cent. of number of kernels that one desired to plant in a hill, the next step was to distribute hills according to fertility of soil. This is effected by changing drop from a lesser to a greater number of kernels at operator's will.

This quick change of number of kernels to the hill—2, 3 or 4—is effected very simply. By operating a small hand lever within easy reach, operator sets clutch so as to turn seed shaft one-sixth, one-fourth or one-third of a revolution, giving 2, 3 or 4 kernels to hill. See cut.

The following points in construction of Janesville corn planters should be noted:

1. Convertible drop—edge or flat. This feature was devised to meet the condition where a farmer on occasion may not care to take the time to select his seed corn.
2. Automatic throw-off to wire—a feature which greatly simplifies the operation of machine.

The Quick Change 2, 3 or 4 Kernels.

3. Automatic distribution of wire on reel—another labor and time-saving feature.

4. Chain or gear drive planters with adjustable drop. The disk marker is a great improvement on the drag marker usually employed.

A steel chain is attached to raising lever in such way that it can be made automatic in the operation or set so that operator releases wire at his will.

Through the improved construction it is possible for operator to change from hill drop to drill drop without leaving his seat or even without stopping team. A combined foot drop and drill drop attachment is placed to rocker shaft, which enables operator, by simply pressing this lever by the center, to lock valves in planter opening and throw clutch into gear so it will run continuously and, of course, drill. When used as a foot drop simply do not press the lever down so far.

Valves on Janesville Planter are so placed that there is no possibility of mixing the hills. Upper valve is located so close to seed plate that it cannot get out of time, and lower valve is so constructed that it can free itself readily from dirt or trash that may get into it. The valve movement ensures your being always in check whether you drive fast or slow, and rows will be straight. The force feed takes care of increased momentum in fast driving.

Change from edge drop to flat drop is effected by simply altering seed plates. Change from hill to drilling is made by throwing clutch in gear with lever. Lastly, without stopping team, 2, 3 or 4 kernels may be dropped to a hill by operating small hand lever within easy reach.

A rod running from rear axle to front frame throws machine out of gear when raised at ends to turn around.

Outside of driving gear, in every other way No. 7 Planter is equipped same as No. 5 Planter.

Planter Runners

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

Runners for Single Row Planters

	List Price.	Our Special Price.
For Hensch & Dromgold		
Daisy.....	\$2.00	\$1.25
For Farmers' Friend.....	2.00	1.25
" Hoosier.....	2.00	1.25
" Keystone, No. 6.....	2.00	1.25
For Deere.....	2.00	1.25

For Double Row Planters

	List Price.	Our Special Price.
For Janesville.....	\$4.00	\$3.00
" Black Hawk, No. 1.....	4.00	3.00
" Black Hawk, No. 4.....	4.00	3.00
" Black Hawk, No. 5.....	4.00	3.00
" Deere, No. 8.....	4.00	3.00
" Deere, No. 9.....	4.00	3.00
" J. I. Case.....	4.00	3.00
" Evans' Steel Frame.....	4.00	3.00
" Evans' Wood.....	4.00	3.00
" Evans' Simplex.....	4.00	3.00
" Gale Sure Drop.....	4.50	3.25
" Hoosier, No. 5.....	4.00	3.00
" Hoosier, No. 10.....	4.00	3.00
" Hoosier, No. 11.....	4.00	3.00
" Hamilton Steel Frame.....	4.00	3.00
" Hamilton Wood Frame.....	4.50	3.25
" Farmers' Friend, Wood Frame.....	4.50	3.25
" Farmers' Friend, Steel Frame.....	4.50	3.25
" Tiger, No. 4.....	4.50	3.25
" Tiger, No. 10.....	4.50	3.25
" Bullseye.....	4.50	3.25
" Union Victor.....	4.00	3.00
" Keystone, Jr.....	4.00	3.00
" U. S., Steel Frame.....	5.00	3.50
" U. S., Wood Frame.....	5.00	3.50
" Barlow, Wood Frame.....	5.00	3.50
" Barlow, Steel Frame.....	5.00	3.50

SEE PAGE
10 FOR
SWEET
CORN.
SEE PAGE
30 FOR
FIELD
CORN.

PLANTER RUNNER SHOE

Intended for use on most old wornout runners where a new runner cannot be obtained, and it will answer the purpose, but where new runners can be had it is much preferable. Per Pair, List Price, \$4.00; Our Special Price, \$1.35.

Planter Patent Seed Corn Grader

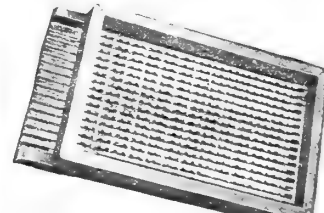
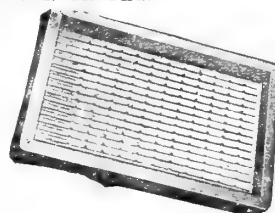
SINGLE SCREEN,

List Price, \$11.00 Dozen. Our Special Price, 75c. Each.

DOUBLE SCREEN,

List Price, \$19.00 Dozen. Our Special Price, \$1.25 Each.

NO ONE WHO PLANTS CORN CAN AFFORD TO BE WITHOUT A CORN GRADER.



Simplest, Perfect Grader. Most Rapid (12 bushels per hour).

Absolutely Substantial. Satisfaction Guaranteed.

Endorsed by Corn Growers and Planter Manufacturers.

Seed Corn Sorted with the Planter Patent Seed Corn Grader separates the kernels into different sizes.

First—The large, irregular kernels.

Second—The uniform kernels.

Third—Small, round, thin and broken kernels.

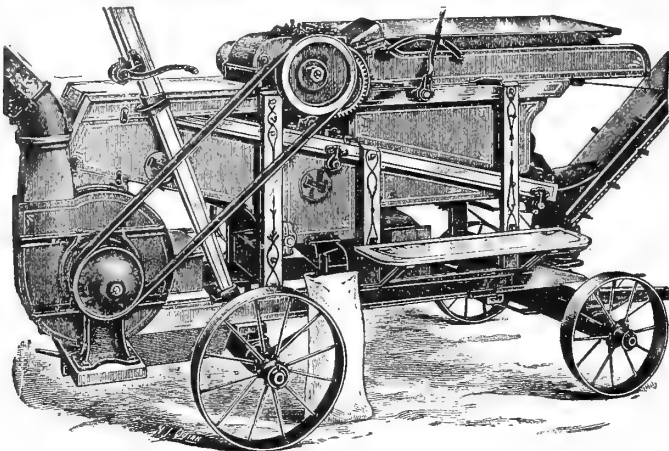
The second are the uniform kernels which are the ones that germinate more perfectly and are those that the planter will drop best, and any number you wish can be dropped to the hill. No loss of seed. The corn grower can plant the large, irregular grains if he wishes, or he can also plant the round, thin and broken kernels, but it is not advised by growers, breeders or the majority of Corn Farmers.

It is absolutely necessary to get a perfect drop in order to have the perfect stand of grain in the field, and this can only be accomplished by grading.

The cost of a grader is but a trifle, and a single acre of graded corn, by its increased crop from a perfect stand, will more than cover the price paid.

By grading your corn with the Planter Patent Seed Corn Grader, you will increase your crop on every acre from four to twenty-five bushels.

The Celebrated Appleton Corn Husker



This Husker will do the work. It is no experiment. It is superior to all others. We will be pleased to send any one names of representative farmers who are using the Appleton Husker and will testify in its favor. We know that most Huskers have failed to give satisfaction. **The Appleton Husker never fails to measure up to the expectation of purchaser. Write for interesting Husker Catalogue.**

We guarantee that under the same conditions the Appleton Husker will do more and better work than any other Corn Husker on market; that it is simpler and requires less power. It is easier and safer to feed.

No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting...	\$235.00
No. 14—Husker with shredder head instead cutter head	247.50
No. 14—Husker with both cutter and shredder head...	266.25
No. 18—Four-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft blower and wheel mounting...	308.25
No. 18—Husker with shredder head instead cutter head	327.00
No. 18—Husker with both shredder and cutter head...	345.75
No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting...	422.00
No. 24—Husker with shredder head instead cutter head	440.75
No. 24—Husker with both cutter and shredder head...	475.00
Blower pipe, extra length, per foot.....	1.25

No. 22 APPLETON 8-ROLL CORN HUSKER.

The Greatest Money-Maker on the Market for Custom Husking.

No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and 4-wheel mounting, f. o. b. factory.....	\$625.00
No. 32—Husker with shredder head instead cutter head, f. o. b. factory.....	643.75
No. 32—Husker with both shredder and cutter head, f. o. b. factory.....	681.25

Capacity of Appleton Corn Huskers and Power Required.

Size.	Horse Power.	Capacity Per Hour.
No. 14.....	4-6	12-25 Bushels.
No. 18.....	6-10	40-60 Bushels.
No. 24.....	8-12	60-90 Bushels.
No. 32.....	15-20	80-125 Bushels.

Above power for cutter head. For shredder head we recommend 4 H. P. more.



Write for Special Catalogue.

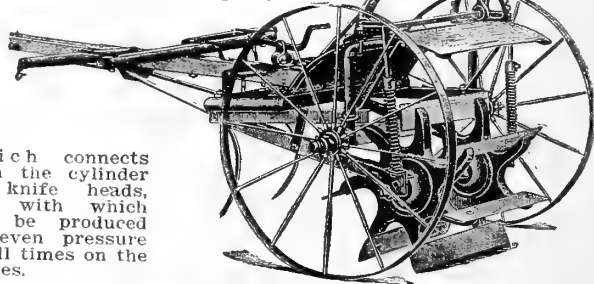
The sieves are made of No. 8 Zinc and screens woven from best annealed wire. The screens in No. 1 Mill have a cleaning surface of **six square feet**, and No. 2 Mill **eight square feet**. The upper and lower shoes are the same size, so that the sieves and screens can be interchanged from one to the other. The possibility of either the screens or sieves clogging is reduced to a minimum by the peculiar shaking motion given them. Every **New Superior** is furnished regularly with thirteen sieves or screens with which more different grains can be perfectly cleaned, graded and separated than double the number in an ordinary mill, doing the work perfectly and without waste. The following special attachments are extra and only shipped when ordered, viz: Millet, Alfalfa, Bean, Barley and Macaroni Wheat. Bagging attachment extra.

No. 1—Width Sieves, 21 inches; Weight, 175 lbs.; Price.....	\$25.00
No. 2—Width Sieves, 32 inches; Weight, 230 lbs.; Price.....	30.00
Weight Bagging Attachment, 50 lbs.; Price.....	7.50

Gritco Stalk Cutter

7-blade, single row.....	\$28.00
9-blade, single row.....	30.00

Practically an all-steel frame machine, making it neat of construction and giving it ample strength. The wheels are all steel, with removable box and 2-inch tire. The lever is within easy reach of the operator and is connected with pressure spring



which connects with the cylinder or knife heads, and with which can be produced an even pressure at all times on the knives.

No. 11.
Steel Frame.
Price, \$22.50.

Standard Corn Harvester



No. 1.
Wood Frame.
Price, \$20.00.

Automatic Knife Guard gives absolute protection to operators. Simple, thoroughly effective, never fails to work instantly. Mechanism extremely simple. Front lever is connected with a plate of steel under the wing which projects beyond all parts of knife. While at work operator holds down with his foot the lever which draws the guard in.

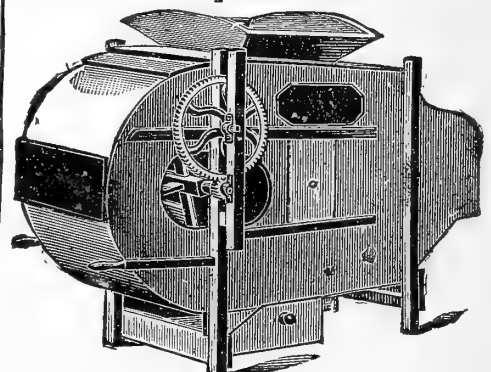
The Wings are independent of each other; quickly raised to pass obstructions. Knives are best grade tempered steel, making an upward shear cut.

The Frame is 28 inches wide; extreme width at widest point of knives, 63 inches; adapting machine to widest or narrowest rows. Frame can be raised or lowered at both front and rear.

Safety Shafts turn freely in any direction and provided with a stop which prevents horse from turning further than necessary. Seats are independent, each one being quickly raised or lowered.

Owens' Superior Fanning Mill

Baltimore Improved Grain Fan



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

Price, \$20.00. Special Price for Cash.

The following special attachments are extra and only shipped when ordered, viz: Millet, Alfalfa, Bean, Barley and Macaroni Wheat. Bagging attachment extra.

No. 1—Width Sieves, 21 inches; Weight, 175 lbs.; Price.....	\$25.00
No. 2—Width Sieves, 32 inches; Weight, 230 lbs.; Price.....	30.00
Weight Bagging Attachment, 50 lbs.; Price.....	7.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HALLOCK AND KEYSTONE WEEDERS AND ATTACHMENTS

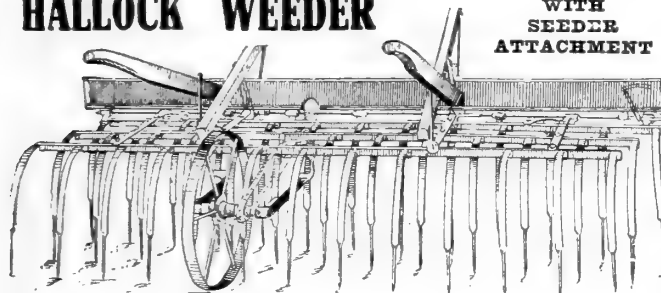
By the use of Hallock and Keystone Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or wet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops. The flat patented tooth of the Hallock Weeder has made these weeders famous.

Hallock Weeder



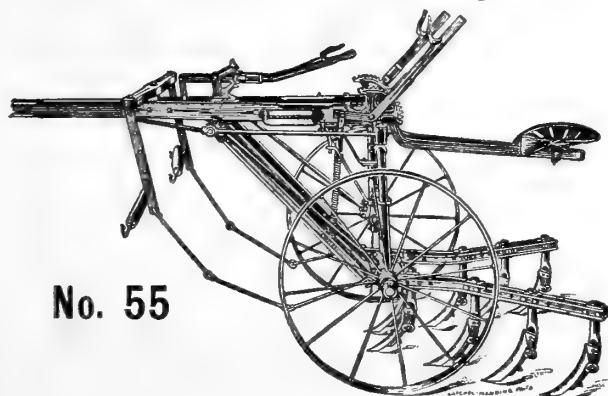
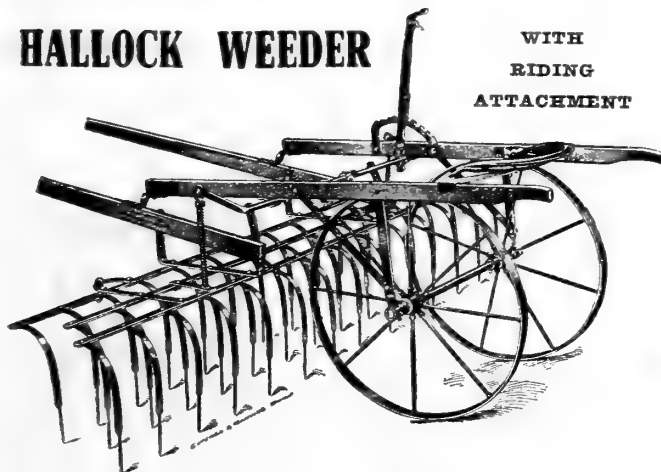
HALLOCK WEEDER

WITH
SEEDER
ATTACHMENT



HALLOCK WEEDER

WITH
RIDING
ATTACHMENT



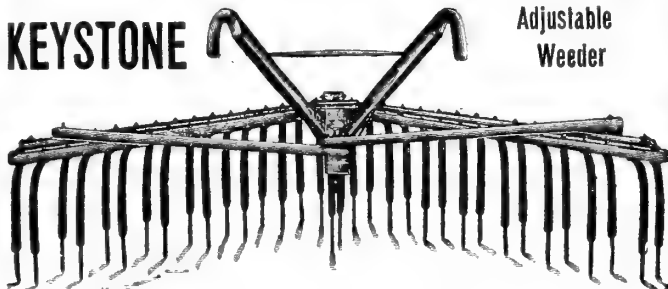
No. 55

Prices of Weeders and Attachments

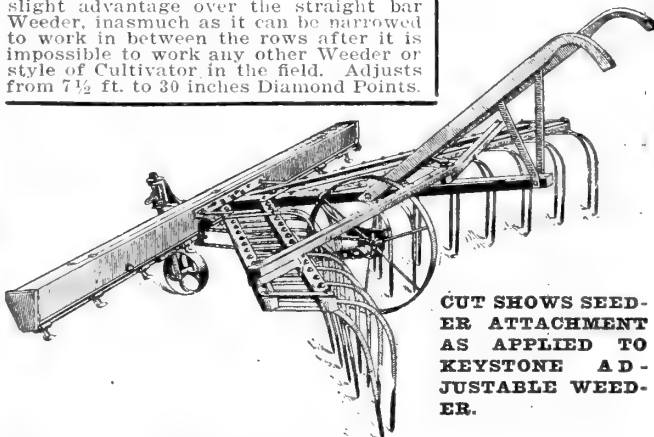
	List Price.	Our Special Price.
Hallock 7 1/2-ft. Walking Weeder.....	\$15.50	\$10.50
Hallock 10 1/2-ft. Walking Weeder.....	28.00	18.00
Hallock 12-ft. Walking Weeder.....	30.00	20.00
Hallock 7 1/2-ft. Riding Weeder.....	33.50	21.00
Hallock 10 1/2-ft. Riding Weeder.....	52.00	33.00
Hallock 12-ft. Riding Weeder.....	54.00	35.00
Keystone 7 1/2-ft. Adjustable round tooth Weeder..	15.50	10.50
Keystone 7 1/2-ft. Adjustable flat tooth Weeder..	17.50	11.50
Seeder Attachment for 7 1/2-ft. Weeder.....	19.50	12.00
Seeder Attachment for 10 1/2-ft. Weeder.....	21.00	12.50
Seeder Attachment for 12-ft. Weeder.....	21.00	12.50
No. 6—Weeder Attachment for Sulky, Hallock tooth.....	4.00	2.75
No. 7—Weeder Attachment for Sulky Cultivator, reinforced tooth.....	4.50	3.00
Gritco Round Tooth Weeder, 7 1/2-ft.....	12.50	8.00
Gritco Oval Tooth Weeder, 7 1/2-ft.....	13.50	9.00

KEYSTONE

Adjustable
Weeder



The Adjustable Weeder has, perhaps, a slight advantage over the straight bar Weeder, inasmuch as it can be narrowed to work in between the rows after it is impossible to work any other Weeder or style of Cultivator in the field. Adjusts from 7 1/2 ft. to 30 inches Diamond Points.



CUT SHOWS SEEDER ATTACHMENT AS APPLIED TO KEYSTONE ADJUSTABLE WEEDER.

Keystone Riding and Walking Cultivators

Keystone Riding and Walking Cultivators are up to date. The general construction of these cultivators has been carefully considered so as to make them strong and durable, and at the same time neat in outline and appearance, but above all, effective and convenient for the work they are to do. Steel and malleable irons are used in the construction of these cultivators—no cast iron. Tongues are made of oak, Georgia long leaf yellow pine or hard maple. Single or double tongues are furnished, as may be desired.

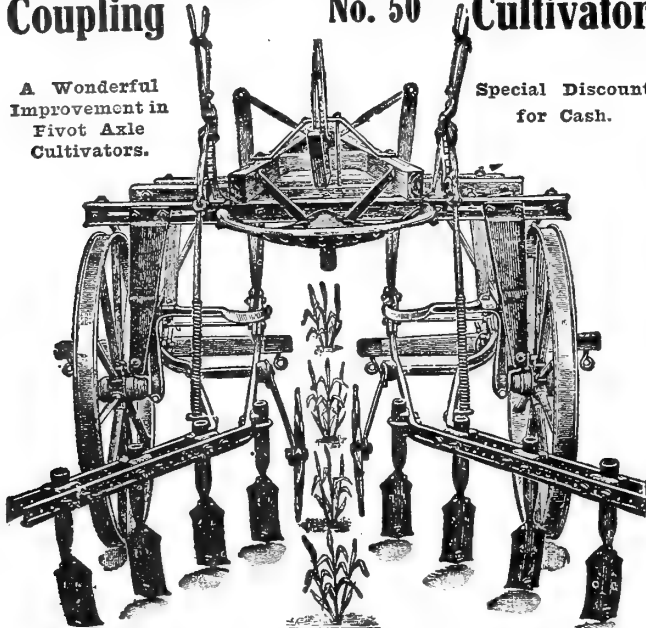
Can be furnished with either 32-inch or 42-inch wheels.

	Riding, No. 55.	Walking, Plain Gangs.
4-Shovel Pin Hoe.....		\$22.50
6-Shovel Pin Hoe.....	\$30.00	22.50
8-Shovel Pin Hoe.....	31.50	24.00
4-Shovel Spring Hoe.....		25.50
6-Shovel Spring Hoe.....	34.50	27.00
8-Shovel Spring Hoe.....	37.50	30.00
3 Spring Teeth.....	31.50	
For Cultivators, with 42-inch Wheel, add.....	1.50	

Hench's 20th Century Steel Ball Coupling No. 50 Cultivator

A Wonderful
Improvement in
Pivot Axle
Cultivators.

Special Discount
for Cash.



The shovel gangs are coupled in front by steel balls, 1 1/4 inches diameter, and malleable sockets having larger running surface and no lost motion. This prevents lateral movement so common in this style machine; if shovel strikes bunch of grass, will not glance around, but cut it out. By slacking four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

Wheels 32 inches high, made of steel, with 2-inch tread, malleable hubs, removable boxes, which can be replaced when worn out. Weight, about 375 pounds.

6-Shovel Pin Hoe....	\$31.00	6-Shovel Spring Hoe....	\$34.25
8-Shovel Pin Hoe....	32.25	8-Shovel Spring Hoe....	36.75
2-Center Beams and Shovels Pin Hoe.....	2.75		
2-Center Beams and Shovels Spring Hoe.....	4.00		
2-Standards and Shovels to make 10-Shovel Pin Hoe.....	2.00		
4-Disc Cultivator with 13-inch discs.....	31.00		
6-Disc Cultivator with 13-inch discs.....	32.25		

Hench Champion Steel Walking Cultivator



Fig. 9.

Special Discount for Cash.

With Shovel Beam Hoisted and Held Up by Springs Alone. In the cut is seen six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.

Perfect spring pressure and hoisting device for regulating the shovel beams or drag bars for deep or shallow cultivating. The high arch permits its use in high corn, and, being firmly braced, gives it great strength.

4-Shovel Pin Hoe....	\$17.50	4-Shovel Spring Hoe....	\$20.25
6-Shovel Pin Hoe....	17.50	6-Shovel Spring Hoe....	21.75
8-Shovel Pin Hoe....	19.25	8-Shovel Spring Hoe....	24.75
7th or Middle Beam.....	2.00	7th or Middle Shovel....	2.50

In addition to the regular shovels, 2 bull tongues and 2 hilling shovels accompany each machine.

BALANCE FRAME WALKING CULTIVATOR.

No. 66. WITH PARALLEL BEAMS.

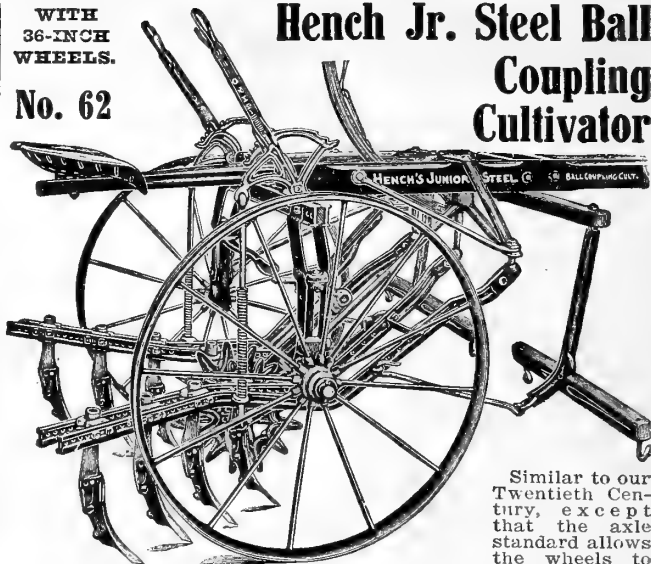
6-Shovel Pin Hoe....	\$18.75	6-Shovel Spring Hoe....	\$23.00
8-Shovel Pin Hoe....	20.50	8-Shovel Spring Hoe....	25.25
2 Standards and Shovels to make 10-Shovel Pin Hoe.....	2.00		

Special Discount for Cash.

WITH
36-INCH
WHEELS.

No. 62

Hench Jr. Steel Ball Coupling Cultivator



Similar to our
Twentieth Cen-
tury, except
that the axle
standard allows
the wheels to

pass over the axle, and is recommended where extremely narrow rows are not cultivated. It is made with three, four or five shovels on each gang, making it six, eight or ten-shovel Cultivator for rowed crops, with a pair of 1 1/4-inch bull tongues for first cultivation and one pair of hilling shovels for last cultivation of rowed crops. It can be rigged with two middle beams and shovels, making a 12-shovel Cultivator for fallow cultivation. It also can be furnished with Double Row Corn Planter Attachment, as shown below in Fig. 56.

6-Shovel Pin Hoe....	\$29.75	6-Shovel Spring Hoe....	\$33.25
8-Shovel Pin Hoe....	31.25	8-Shovel Spring Hoe....	35.75
2-Center Beams and Shovels Pin Hoe.....	2.75		
2-Center Beams and Shovels Spring Hoe.....	4.00		
2-Standards and Shovels to make 10-Shovel Pin Hoe.....	2.00		
4-Disc Cultivator with 13-inch discs.....	29.75		
6-Disc Cultivator with 13-inch discs.....	32.00		

20th Century Corn Planter Attachment

Fig. 56.

Special Discount for Cash.

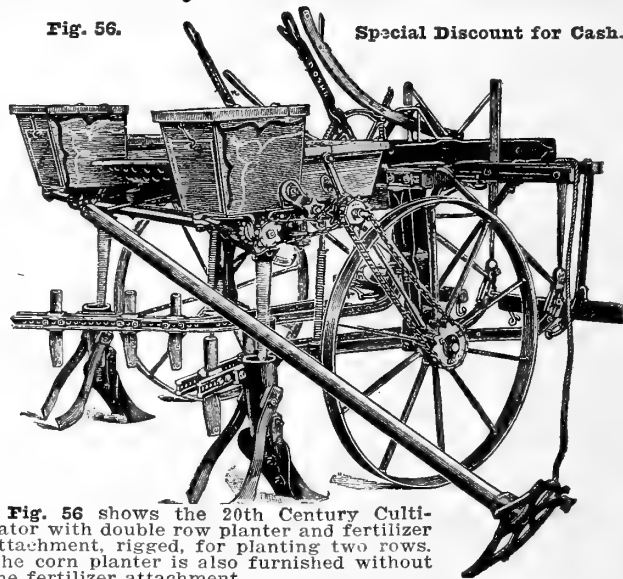


Fig. 56 shows the 20th Century Cultivator with double row planter and fertilizer attachment, rigged, for planting two rows. The corn planter is also furnished without the fertilizer attachment.

All Cultivators are made so that the planter can be attached at any time. It will plant accurately almost any depth required, one grain 11, 13 or 15 inches, or two grains 22, 26 or 30 inches apart, and additional dies can be furnished at a small cost for sowing ensilage corn, or for peas, beans and other seeds. It can be set to plant rows from 2 ft. 10 in. to 4 ft. apart. The cost for a 2-row planter attachment is but a trifle more than a single row. Price of Planter Attachment: Double-Row Planter Attachment, plain, \$16.75. Double-Row Planter Attachment, with Fertilizer Attachment, \$21.00.

For prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to Hench's 20th Century, Junior, Old Style and Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

Daisy Cultivator On Wheels



Fig. 6.
 Set -
 Handles
 and
 Braces
 to make
 Daisy
 on Wheels,
 \$1.00.

This style cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. We can furnish anyone having the regular Harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse. The wheels guide it and cause it to run steady. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate.

RETAIL PRICE.			
7-Tooth.....	\$10.75	10-Tooth.....	\$12.50
8-Tooth.....	11.25	11-Tooth.....	13.25
9-Tooth.....	12.00		

Special Discount for Cash.

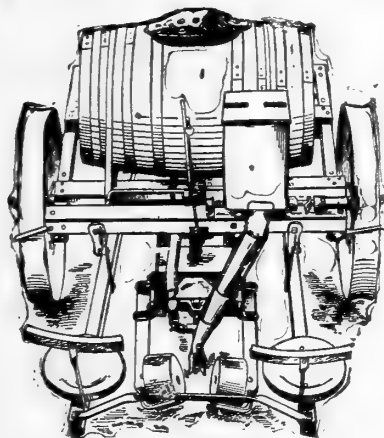
DAISY CULTIVATOR



Fig. 24.
 Wt., 69 lbs.
 6-Tooth..\$5.50
 8-Tooth.. 7.00
 10-Tooth.. 8.25
 12-Tooth..11.75

All with Wheel and Ratchet Tooth Holder.
 Special Discount for Cash.

NAGLEY'S TRANSPLANTING MACHINE



Price, \$57.50.

This transplanter has been fully tested on all kinds of soil, and can be operated and worked satisfactorily on any ground on which you wish to transplant tobacco, cabbage, celery, tomatoes, etc.

The Automatic Check Valve Device is furnished with all Machines, but a Continuous Stream is Always Recommended.

Directions: Keep heavy oil on check valve.

1st. Use martingales or breeching when hitching to transplanter.

2d. Prepare your ground in good condition.

3d. Regulate the pressure iron so that the right pressure is attained on loose or heavy soil.

The raising or lowering of the rollers regulates the depth the plow should be run in the ground.

4th. Adjust the foot rests for the dropper boys' comfort.

5th. The two dropper boys set plants in the heel of the plow alternately.

6th. Drive horses slow and regular, and in a short time the boys can do good work.

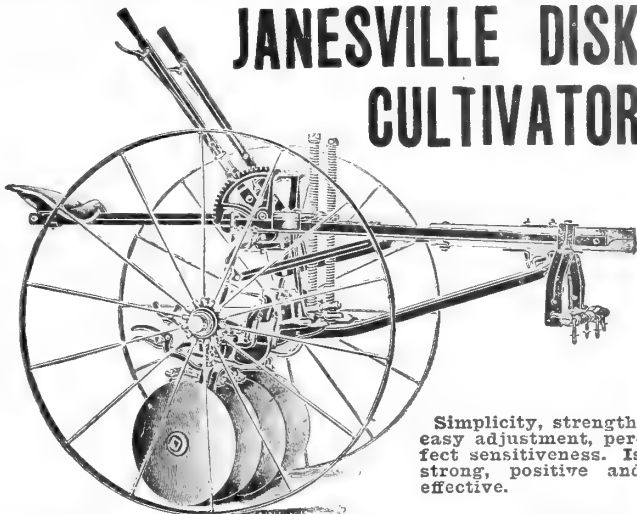
7th. If you have long and short plants, transplant the long ones, then lower the packers for the short ones.

8th. The water is regulated by turning the upper faucet.

THE NAGLEY, JR., TRANSPLANTER

The factory's latest production. Has two rollers in front which straddle the row being set. Plants successfully tomatoes, cabbage, tobacco or sweet potatoes. Send for circular. Price, \$60.00.

JANESVILLE DISK CULTIVATOR



Simplicity, strength, easy adjustment, perfect sensitiveness. Is strong, positive and effective.

Steel wheels; removable dustproof box; disk gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the disks and the tilt of the frame accomplished by levers. The one machine that is imitated by other Disk Cultivator manufacturers.

A hand lever, operated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires.

Any change made in the angle of the gangs does not affect the position of the shields and levelers.

The foot levers, the gangs and the coupling arms that control the tilt of the gangs and shields are positive in their action, and never slip when set, because they are held by interlocking teeth.

The yoke boxes in the gang yoke are renewable. It is never necessary to buy a new gang yoke when the bearings of the yoke boxes wear out. This feature will be appreciated.

The spring pressure feature of the Janesville Disk Cultivator enables the operator to put the gangs as deeply as desired into the hardest soil.

As the gangs are hung on springs, the guiding is done by foot pressure instead of by shoving sideways. The disks follow the shape of the ground evenly because of their adjustment with the wheels.

You can run it up close to the young plant without cutting off or wounding the lateral roots.

The Janesville cuts and buries trash, vines, stalks, and kills the weeds.

Prices, less Levelers.....	\$36.00
Levelers, per pair.....	1.75
Four-shovel Attachment Pin Hoe.....	7.50
Six-shovel Attachment Pin Hoe.....	8.50
Four-shovel Attachment Spring Trip.....	9.50
Six-shovel Attachment Spring Trip.....	11.00
16-in. disks and thimble for attachment to gangs, pair....	4.00

MASTERS' RAPID PLANT SETTER

All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, Etc. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each, \$3.75.

TESTIMONIALS

The Masters' Planter I purchased has worked very satisfactorily, and have obtained better results from the plants set out by your machine than from those planted by hand with season.

Fork, Md.

F. E. Wright.

I bought one of Masters' Rapid Plant Setters and used it to great advantage that spring. This last spring I bought two more Setters and find them satisfactory in every respect, saving labor, saving plants, with far better results than the best hand work. I would not do without the Setters for many times their cost.

Laurel, Del.

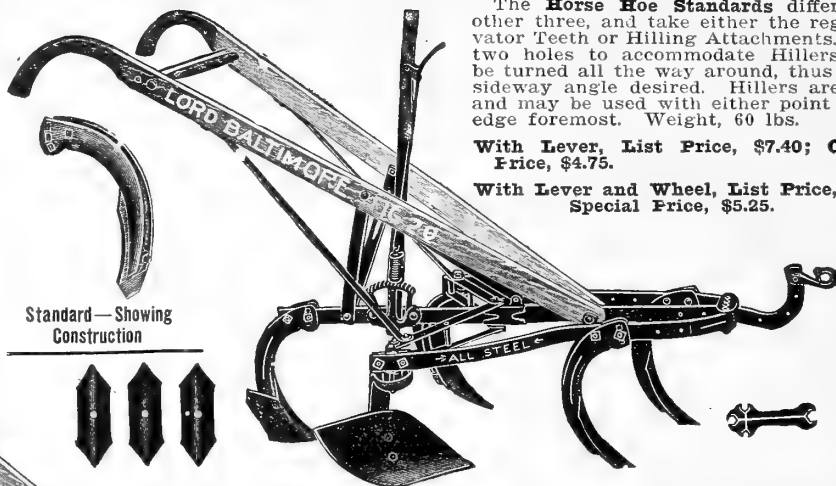
Harvey W. Hastings.



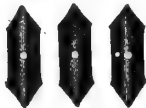
\$3.75

Lord Baltimore Cultivator and Horse Hoe—FIG. 20

Equipped with our latest improved **Hollow Pressed Steel Standards, Lever Expander and Outside Handle Braces.** Extra high Steel Frame. Standards are interchangeable, there being no "right" nor "left" as in the solid standards in general use.



Standard—Showing Construction

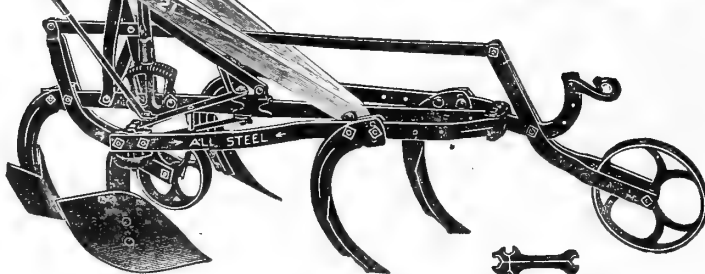


The **Horse Hoe Standards** differ from the other three, and take either the regular Cultivator Teeth or Hilling Attachments. They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideways angle desired. Hillers are reversible and may be used with either point or rounded edge foremost. Weight, 60 lbs.

With Lever, List Price, \$7.40; Our Special Price, \$4.75.

With Lever and Wheel, List Price, \$8.20; Our Special Price, \$5.25.

FIG. 21.



LEVERS FOR LORD BALTIMORE, OLD DOMINION AND ORIOLE CULTIVATORS. LIST PRICE, 70c.; OUR SPECIAL PRICE, 50c.

Oriole and O. D. have No. 89 plates.

Lord Baltimore Cultivator and Horse Hoe

FIG. 21

The same tool as shown in Fig. 20, with the addition of the **Lever Wheel Attachment and Rear Wheel Depth Regulator.** Weight, 80 lbs. List Price, \$10.00. Our Special Price, \$6.50.

These Cultivators can be contracted to about 9 to 10 inches, and expanded to about 26 inches.

WEIGHT
42 lbs



Oriole and Old Dominion Cultivator

The difference between the Oriole and Old Dominion Cultivators is: The first has bent frame and the other has straight frame. The Old

Dominion Cultivator is sold principally in Virginia and the South, and wherever sold it becomes a favorite. Both have No. 89 plates.

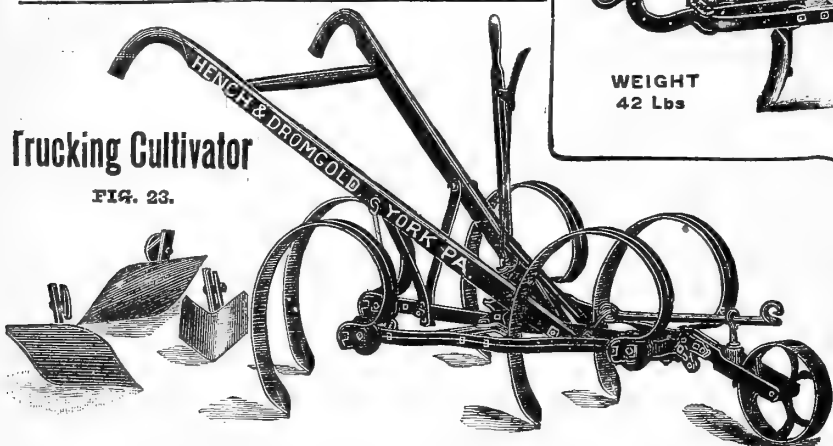
	List Price.	Special Price.
Cultivator, plain.....	\$3.80	\$2.50
Cultivator with Lever.....	4.40	3.00
Horse Hoe Attachments, complete, per set of three pieces..	2.00	1.25
Wheels for Cultivators, each....	.70	.50

Fig. 24—7-Tooth Cultivator with Channel Frame and Lever....	6.50	4.25
Same with Lever and Wheel....	8.00	5.00

BALTIMORE COMBINED HARROW AND CULTIVATOR

Trucking Cultivator

FIG. 23.



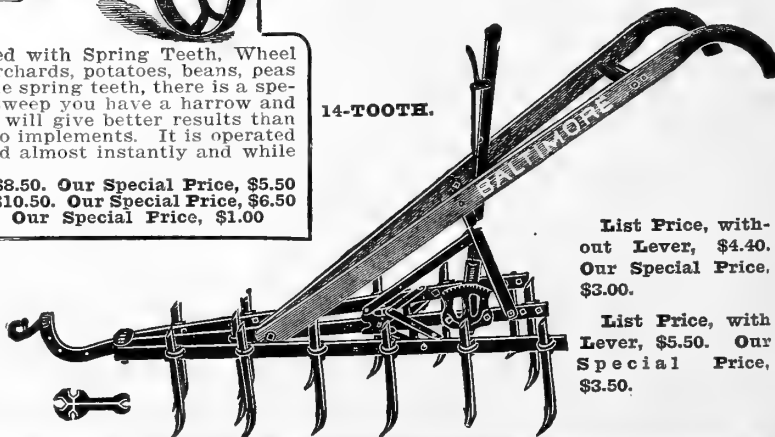
Our five and seven-tooth Expanding Cultivators, fitted with Spring Teeth, Wheel and Lever, are especially adapted for cultivating in orchards, potatoes, beans, peas or any grain planted in single rows. In addition to the spring teeth, there is a special Horse Hoe attachment, and together with center sweep you have a harrow and cultivator combined, which makes a complete tool and will give better results than any tool now on the market. It takes the place of two implements. It is operated by a lever for wide or narrow rows, and can be changed almost instantly and while in operation. Weight, 79 lbs.

5-Tooth Cultivator with Wheel and Lever. List Price, \$8.50. Our Special Price, \$5.50
7-Tooth Cultivator with Wheel and Lever. List Price, \$10.50. Our Special Price, \$6.50
Horse Hoe Attachments, complete. List Price, \$1.50. Our Special Price, \$1.00

The teeth have four positions—First, position shown in cut, in which case can be used for working very close to small plants. Thoroughly pulverizes, throws no dirt on plants. Second, position as a straight-tooth harrow. Third position, teeth can be arranged as a smoothing harrow, with sharp points down, in order to cut and level surface. Fourth position, teeth can be set with sheared end down, being less liable to injure young plants.

Can be contracted to 9 inches and expanded to 21 inches. Weight, 51 pounds.

14-TOOTH.



List Price, without Lever, \$4.40.
Our Special Price, \$3.00.

List Price, with Lever, \$5.50. Our Special Price, \$3.50.



	List Price.	Our Special Price.		List Price.	Our Special Price.
No. 0—1½-in. Diamond Point Steel.	\$.08½	\$.06½	Horse Hoe, Steel, with Shank or Standard, per pair.	\$1.80	\$1.15
No. 1—2-in. Diamond Point Steel.	.09½	.07½	Horse Hoe Attachments complete, per set of three pieces.	2.00	1.25
No. 89—2½-in. Diamond Point Steel.	.10½	.08	No. 18—8-in. Sweep, each.	.29	.20
No. 82—3-in. Diamond Point Steel.	.10½	.08	No. 18—10-in. Sweep, each.	.31	.22
No. 83—3½-in. Diamond Point Steel.	.12½	.09	No. 18—12-in. Sweep, each.	.34	.25
No. 84—4-in. Diamond Point Steel.	.14	.10	No. 18—15-in. Sweep, each.	.42	.30
No. 67—Oval or Light Jersey Pt. Steel.	.12	.08	Wheels for Cultivators, each.	.70	.50
No. 68—Oval or Jersey Point Steel.	.13½	.09	Levelers for Cultivators, each.	1.50	1.00
No. 10—Turn Shovel, right or left, ea.	.25	.15	Cultivator Plate and Frame Bolts, ea.	.04	.03
No. 16—Turn Shovel, each.	.22½	.15	Wheel Cultivator Clamps, each.	.36	.25
No. 11—6-in. Sweep, about 7 inches across, each.	.22½	.15	Set Screw Cultivator Clamps, each.	.30	.22
No. 11—8-in. Sweep, about 11 inches across, each.	.33	.20	Teeth for Baltimore Combined Harrow and Cultivator, Diamond Shaped Steel, each.	.08	.06
Horse Hoe, Steel only, without shank, R. & L., each.	.27	.20	Cultivator Handles, finished, per pr.	1.20	.75

LEVELER.

Blades for Hiding Cultivators with Round Foot and Open Foot Backs	List Price.	Our Special Price.
5x11, per set of 4.	\$3.00	\$2.00
5x11, bored, less backs, per set of 4.	1.80	1.50
5x11, not bored, and less backs, per set of 4.	1.60	1.20
Bull Tongues for above, 1½" and 2", with backs, each.	.50	.35
Bull Tongues for above, 2½" and 3", with backs, each.	.60	.40
Same, bored, no backs, each.	.40	.30
Same, not bored, no backs, each.	.30	.25
Reversible Steels for 6-Shovel Cultivator	List Price.	Our Special Price.
1½x10x3/16-in. Plain Reversible, each.	\$0.15	\$0.10
2x10x3/16-in. Plates, no Bolts, each.	.16	.12
3x10x3/16-in. Plates, no Bolts, each.	.20	.15
3½x10x3/16-in. Plates, no Bolts, each.	.25	.20

Steels for Hench and Dron gold's Riding Cultivators and Champion Walking Cultivators	List Price.	Our Special Price.
1½-in. Plain Shovel, O. S., without revolving backs.	\$0.18	\$0.12
2½-in. Plain Shovel, O. S., without revolving backs.	.22	.15
2½-in. Plain Shovel, N. S., with revolving backs.	.30	.20
2¾-in. Plain Shovel, O. S., without revolving backs.	.22	.15
2¾-in. Plain Shovel, N. S., with revolving backs.	.30	.20
3-in. Plain Shovel, O. S., without revolving backs.	.26	.18
3-in. Plain Shovel, N. S., with revolving backs.	.34	.24
3½-in. Plain Shovel, O. S., without revolving backs.	.28	.20
3½-in. Plain Shovel, N. S., with revolving backs.	.36	.25
Hilling Shovels, O. S. and N. S., right and left, each.	.72	.45

SPIKE HARROW TEETH



Special Price in Quantity.

Steel Beam Middle Burster

The Beam has a high throat, and wings are shaped especially for black, waxy lands. Wings and points are of high carbon steel. Points have re-enforced nose. A strong serviceable tool for two, four or six horses.

We can furnish them as follows:

Cuts.	Wt.	List Price.	Our Special Price.
8-in.	77 lbs.	\$11.00	\$7.00
10-in.	82 lbs.	11.50	7.50
12-in.	87 lbs.	13.00	8.25
14-in.	93 lbs.	14.00	8.75
16-in.	93 lbs.	15.20	9.50

Rudders, each — List, 40c. Our Special Price, 25c.

SHARES FOR MIDDLE BURSTER

Cuts.	List Price.	Our Special Price.
8-in.	\$1.30	\$0.80
10-in.	1.60	1.00
12-in.	1.90	1.20
14-in.	2.20	1.40
16-in.	2.70	1.75

The Iron Age Horse Hoe

Wheel and Cultivator Combination— with or without Lever Adjuster.



The Iron Age is celebrated for solidity of construction, adaptation to a great variety of purposes and ease of handling. The reversible hoes or plows of Horse Hoe are bolted to Solid Steel Standards of their own (not attached to light cultivator standards). The value of the Iron Age as a Corn Coverer is now well known, also for covering Peas, Potatoes, etc., and for making up rows for root crops it is not surpassed.

PRICES:

	List Price.	Our Special Price.
Iron Age Cultivator, plain.	\$5.50	\$3.40
Iron Age Cultivator, with Lever.	6.70	4.15
Iron Age Horse Hoe and Cultivator, plain.	7.60	4.75
Iron Age Horse Hoe and Cultivator, with Wheel.	8.50	5.25
Iron Age Horse Hoe and Cultivator, with Lever and Wheel.	9.50	6.00

SHOVEL PLOWS

Farmers' Favorite, single-shovel Plow\$2.25
Farmers' Favorite, double-shovel Plow 2.50

The cost of these goods is not so much in the finish as in the construction and material, these being the principal requisites in an implement.

Triple-shovel Plows, regular\$3.00
Extra Heavy three-shovel Plows 3.25

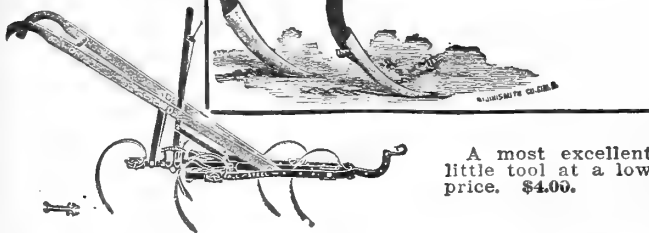
The Original and Genuine "Malta" Iron Beam Single and Double Shovel Plows

Has 1 1/4 x 3/4-inch Beam.

PRICE.

Double Shovel Plow...\$3.25
Single Shovel Plow... 2.75

**SEVEN-TOOTH
SPRING TOOTH
CULTIVATOR
WITH LEVER.**



A most excellent little tool at a low price. \$4.00.

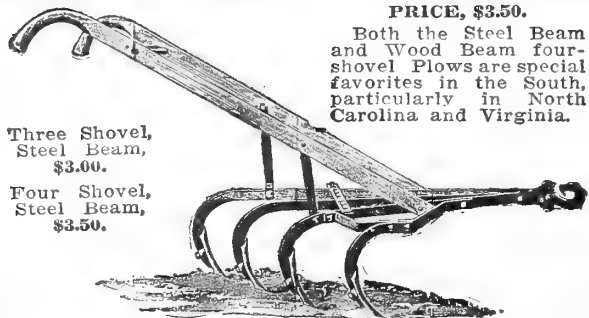
Gritco Steel Beam Four Shovel Plows

PRICE, \$3.50.

Both the Steel Beam and Wood Beam four-shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

Three Shovel, Steel Beam, \$3.00.

Four Shovel, Steel Beam, \$3.50.



Gritco Wood Beam Four Shovel Plow

PRICE, \$3.00.

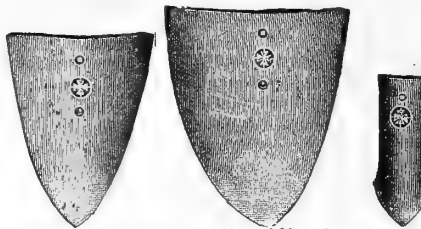
Both Wood and Steel Beam are furnished with reversible plates.

Four Nut Shovel Plow Spreader Bolts

For Beams and Handles, each.....25c.
Shovel Plow Clevis, 20c.

STEELS

For Single and Double Shovel Plows.



SIZES SHOVEL PLOW STEELS.

DRAG BLADES.

4"x7", 4 1/2"x7", 5"x8".

D. S. BLADES.

5", 5 1/2", 6", 6 1/2", 7" wide.
8", 10" and 11" long.

S. S. BLADES.

All sizes from 8" to 18" wide by 11" to 16" long. In 1 and 2 hole.

CALF TONGUES—1 1/4", 1 3/4", 2" wide by 3" long.
GULL TONGUES—1 1/4", 2" and 3" wide by 11" long.

Above can be furnished in 1 or 2 hole.

Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels, per pound\$.08 1/2
Farmers' Favorite Triple Shovel Plow Steels, per pound\$.08 1/2
Farmers' Favorite Single and Double Shovel Plow Steels, per pound\$.07 1/2
Bolts for Shovel Plow Blades, each..... .05
Four Shovel Plow Steels, 3-inch, each..... .07
Four Shovel Plow Steels, 3 1/2-inch, each..... .08
Shovel Plow Fender35

SHOVEL PLOW HANDLES

Finished, for Single or Double Shovel Plows, complete with round and rod, per set.....75c.
Finished without round and rod, per pair.....60c.
Finished and bored, right and left, each.....30c.

CRYSTAL METAL FARM BELLS

No.	Wt. Com- plete.	Diam. of Bell.
1....	40 lbs.	15 in.
2....	50 lbs.	17 in.
3....	75 lbs.	19 in.
4....	100 lbs.	21 in.

Prices, including hangings complete: Bronzed.

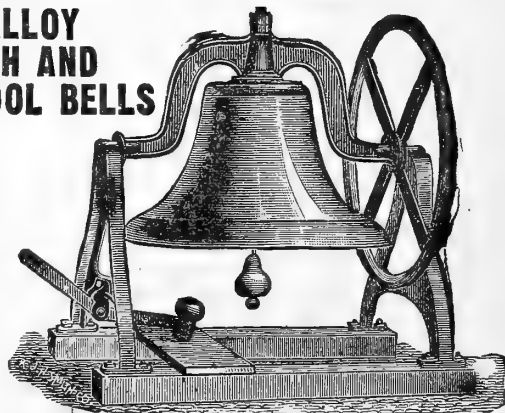
No.	List Price.	Retail Price.
1....	\$4.00	\$2.00
2....	5.00	2.50
3....	7.50	3.75
4....	10.00	5.00

THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.



STEEL ALLOY CHURCH AND SCHOOL BELLS

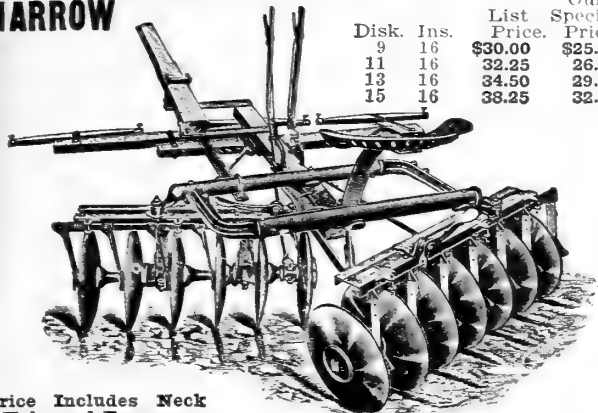
Cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.



No.	Diam.	Weight, Bell only.	(MOUNTED) Wt. Complete.	List Price.	Retail Price.
22	22 in.	122 pounds.	175 pounds.	\$20.00	\$16.00
24	24 in.	153 pounds.	225 pounds.	25.00	20.00

Tolling hammer not furnished with No. 22. When furnished with No. 24, List, \$5.00; Retail, \$4.00. Prices on above named are for COMPLETE BELLS, and include wood sills and iron wheel.

BELL'S CENTER-CUT OVERLAPPING DISK HARROW



Disk.	Ins.	List Price.	Our Special Price.
9	16	\$30.00	\$25.00
11	16	32.25	26.50
13	16	34.50	29.00
15	16	38.25	32.00

Price Includes Neck Yoke and Eveners.

Most of the Disk Harrows on the market are so constructed as to leave an uncult ridge in the center. This is not the case with the **BELL'S CENTER-CUT** (see engraving). This Harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high-test steel disks. Harrows will always be furnished with Round Disks unless specially ordered. Cut disks furnished at small extra cost.

FORE-TRUCK FOR ABOVE HARROW add: List Price, \$6.00. Our Special Price, \$4.75.

DRUID TWO-WAY HARROW

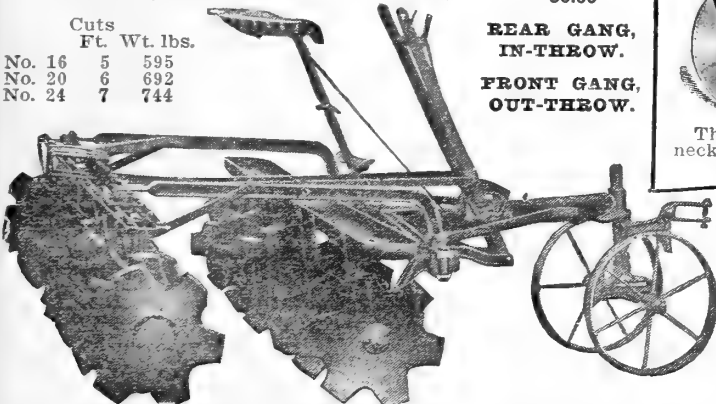
	List Price.	Our Special Price.
No. 16—16, 16-inch disks.....	\$47.25	\$42.50
No. 20—20, 16-inch disks.....	50.40	46.00
No. 24—24, 16-inch disks.....	54.90	50.00

Cuts
Ft. Wt. lbs.

No. 16	5	595
No. 20	6	692
No. 24	7	744

REAR GANG,
IN-THROW.

FRONT GANG,
OUT-THROW.



A harrow with two pairs of gangs will thoroughly pulverize the soil and level the ground in one operation. The front set of gangs throws the soil outward from each side of center; the rear set will throw in opposite direction, and being located to follow between furrow made by front disks, throws the soil inward and at the same time pulverizes it.

Front and rear gangs are controlled entirely by the two levers, and as easily handled as an ordinary single disk. The frame is made of heavy channelled high carbon steel, well braced. Rear frame is attached to front cross frame in such a manner as to allow each row of disks to follow the unevenness of the land. If front harrow without rear gangs is desired, it can be accomplished by removing four bolts that connect rear frame to cross-bar.

WALTER A. WOOD DISK HARROW

FORMERLY
BUFFALO PITTS

These Harrows possess the advantage of flexible up-and-down movement at inner end of disk gangs while retaining an equal pressure on all the disks. This feature is under control of the driver.

Prices with Neck Yoke and Eveners. 12-Disk fitted with 3-Horse Eveners. 14-Disk fitted with 4-Horse Eveners.

Disk.	Ins.	List Price.	Our Special Price.	Disk.	Ins.	List Price.	Our Special Price.
8	16	\$35.00	\$21.00	12	16	\$42.50	\$25.50
10	16	38.00	23.00	14	16	48.00	29.00

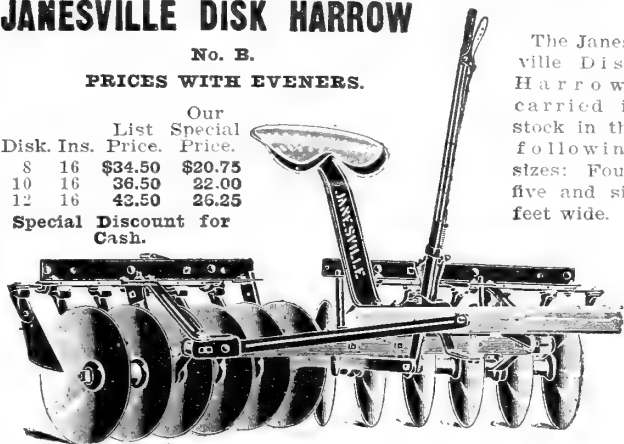
JANESVILLE DISK HARROW

No. B.

PRICES WITH EVENERS.

Disk.	Ins.	List Price.	Our Special Price.
8	16	\$34.50	\$20.75
10	16	36.50	22.00
12	16	43.50	26.25

Special Discount for Cash.



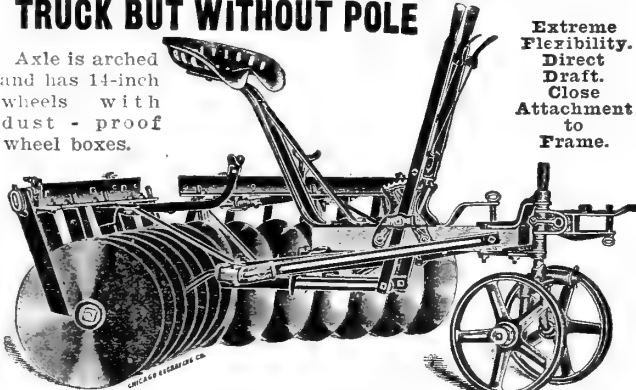
The Janesville Disk Harrows carried in stock in the following sizes: Four, five and six feet wide.

An angle steel bar runs full length of gang, and is fastened to top of standards. This takes place of weight boxes. Cleaner bar and cleaners are attached to angle steel bar. Standards are steel.

JANESVILLE DISK HARROW WITH FORE-TRUCK BUT WITHOUT POLE

Axle is arched and has 14-inch wheels with dust-proof wheel boxes.

Extreme Flexibility. Direct Draft. Close Attachment to Frame.



The Janesville Harrow Truck is a new device for removing neck weight and keeping pole from constantly slashing horses.

Made entirely of malleable iron and steel. Essential features: Extreme flexibility, close attachment to frame of harrow. Direct draft connection, with result that truck follows line of team at all times. Upright standard joins axle with an oscillating bearing of 5 inches.

Disk.	Inches.	List Price.	Our Special Price.
8	16	\$39.50	\$23.75
10	16	41.50	25.00
12	16	48.50	29.25

List Our Spec'l Price. Price.

For 18-inch Disk on 8 and 10 Disk Harrows, add.....	\$4.50	\$2.75
For 18-inch Disk on 12 Disk Harrows, add.....	5.00	3.00
For 20-inch Disk on 8 and 10 Disk Harrows, add.....	8.00	5.00
For 20-in. Disk on 12 Disk Harrows, add.....	10.00	6.00
Double Lever Attachment for any of above, add.....	2.00	1.25
Fore-Truck for Janesville Harrow.....	8.50	5.10

Extra Disks for Bell's Center-cut, Janesville, Oriole, and Walter A. Wood Disk Harrows. 16-inch, \$1.25; 18-inch, \$1.50; 20-inch, \$1.75.

GRITCO REVERSIBLE DISK HARROW

The advantage in this machine is its Reversible feature. Can be changed from an out-throw to an in-throw in a few moments. Draft heads are adjustable on main frame. Gangs are adjustable up or down at either end to cut deep or shallow as desired. Can furnish extension head for orchard purposes if wanted.

Disk.	Ins.	List Price.	Our Special Price.	Disk.	Ins.	List Price.	Our Special Price.
8	16	\$23.70	\$22.75	10	16	\$25.25	\$24.25
8	18	25.20	24.25	10	18	26.75	25.75
8	20	26.70	25.75	10	20	28.25	27.25

If Scrapers are wanted, add List Price, \$1.50; Our Special Price, \$1.40.

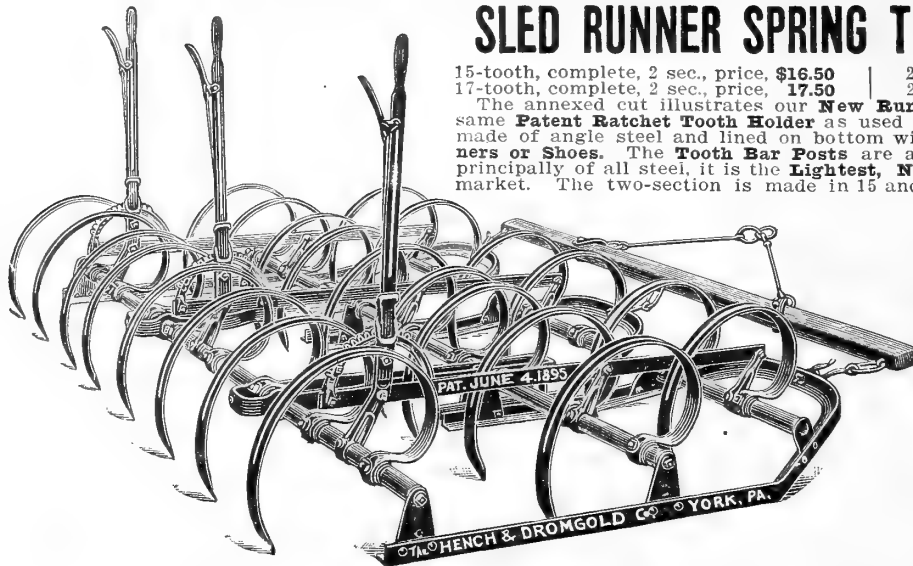
If Extension Head is wanted, add List Price, \$4.50; Our Special Price, \$4.00.

SLED RUNNER SPRING TOOTH LEVER HARROW

15-tooth, complete, 2 sec., price, \$16.50
17-tooth, complete, 2 sec., price, 17.50

23-tooth, complete, 3 sec., price, \$23.50
25-tooth, complete, 3 sec., price, 25.50

The annexed cut illustrates our **New Runner Spring-Tooth Harrow**, having the same **Patent Ratchet Tooth Holder** as used on our **Wheel Harrow**. The frame is made of angle steel and lined on bottom with 1½-inch by ¼-inch **Hard Steel Runners or Shoes**. The **Tooth Bar Posts** are also of **Steel**. The construction being principally of all steel, it is the **Lightest, Neatest and Strongest Harrow** on the market. The two-section is made in 15 and 17-tooth sizes.



Spring Harrow Teeth



For All
Leading
Harrowes.

Price, 35c.
each.

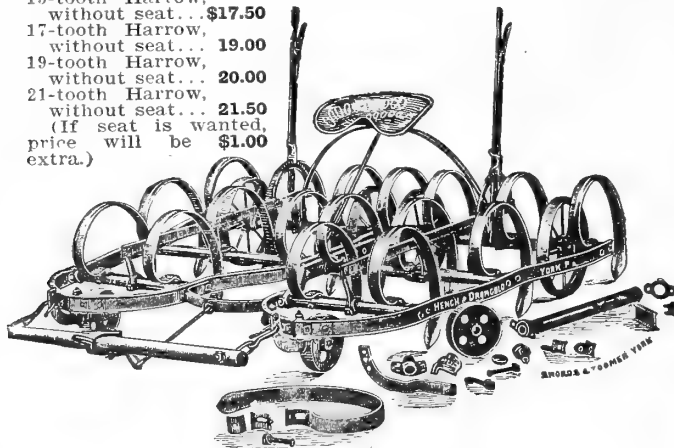
When taken
in full sets,
special price.

Hench & Dromgold's

Improved Walking or
Riding Spring Tooth
Harrow on Wheels

The original standard lever wheel harrow of the world. Depth easily and quickly regulated by the levers; wheels prevent teeth from gouging. By use of ratchets and levers, 15 inches can be worn off teeth before renewing.

15-tooth Harrow,
without seat... \$17.50
17-tooth Harrow,
without seat... 19.00
19-tooth Harrow,
without seat... 20.00
21-tooth Harrow,
without seat... 21.50
(If seat is wanted,
price will be \$1.00
extra.)



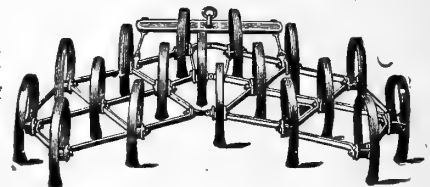
Hench & Dromgold's Ratchet Float Harrow

This Harrow has
ratchet arrange-
ment for regulat-
ing length of
tooth in case of
wear.

Special Discount
for Cash.

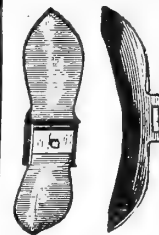
14-tooth Harrow.....\$11.00
16-tooth Harrow..... 12.00
18-tooth Harrow..... 13.00

20-tooth Harrow.....\$14.00
22-tooth Harrow..... 15.00

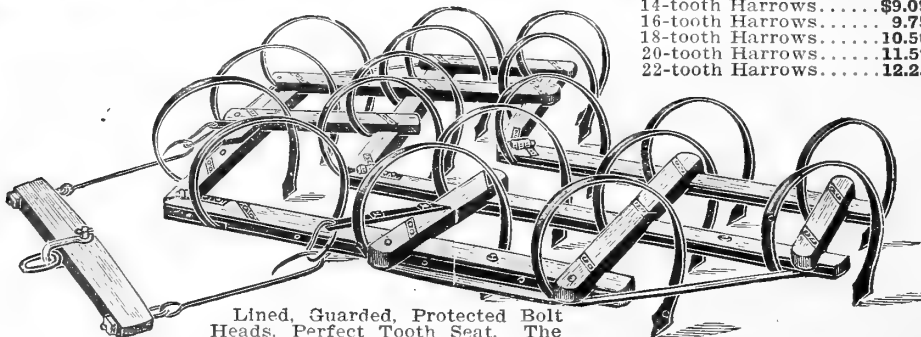


Michigan Pattern Reversible Harrow Tooth Points

Fastening device to the old tooth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.



Wood Frame Harrow, Steel Lined



Lined, Guarded, Protected Bolt
Heads. Perfect Tooth Seat. The
best of "Wood Frame" Harrows.

14-tooth Harrows.....\$9.00
16-tooth Harrows..... 9.75
18-tooth Harrows.....10.50
20-tooth Harrows.....11.50
22-tooth Harrows.....12.25

The Butts Reversible Harrow Tooth Points

The double
point is equiva-
lent to two new
teeth, having
the holder be-
sides.

Can be used
on all Spring
Harrow Teeth.
Price, each, 20c.

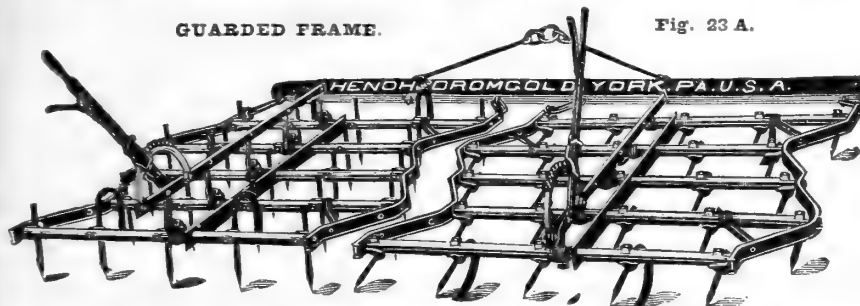


**SYRACUSE REVERSIBLE
HARROW TOOTH POINTS.**
Each, 12c.

ADJUSTABLE SPIKE TOOTH LEVER HARROW

GUARDED FRAME.

Fig. 23 A.



This Harrow has a guarded frame of I beam steel. Cross-bars or beams are of round bar steel, similar to "U" bar, but more closed, well braced and securely fastened at each end to the frame. This gives the Harrow strength and rigidity, and is a guard against catching into trees and stumps. The teeth are of diamond-shaped steel. The runners are formed by the curved tooth extension, which is placed so that the Harrow will free itself from trash better and will carry the Harrow a more even distance from the ground than any other Harrow on the market. The teeth are held firmly by a welded eye steel bolt through the malleable clip to roller bars; also the end teeth on the roller bars.

which locks and holds the frame firmly together. Each tooth cuts its own course, and with the lever the teeth can be set to any pitch or cut desired.

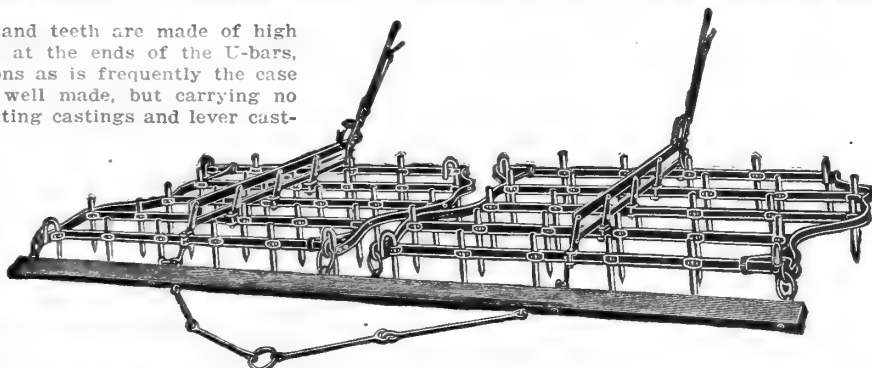
50-tooth, 2 sections, \$12.00; 60-tooth, 2 sections, \$13.25; 75-tooth, 3 sections, \$18.50; 90-tooth, 3 sections, \$20.00.
Special Discount for Cash.

GRITCO GUARDED FRAME LEVER HARROW

The U-bars, channels, oscillating bars and teeth are made of high carbon steel. The channels, being placed at the ends of the U-bars, prevent them from catching on obstructions as is frequently the case with the open end harrow. Strong and well made, but carrying no superfluous weight. Corner braces, oscillating castings and lever castings of malleable iron.

Made in 25 and 30-tooth sections, and with 1/2-in. or 5/8-in. teeth.

50-Tooth Harrow, 1/2-inch Teeth.	
Weight, 190 lbs.	\$11.00
50-Tooth Harrow, 5/8-inch Teeth.	
Weight, 195 lbs.	11.50
60-Tooth Harrow, 1/2-inch Teeth.	
Weight, 210 lbs.	12.00
60-Tooth Harrow, 5/8-inch Teeth.	
Weight, 215 lbs.	13.00

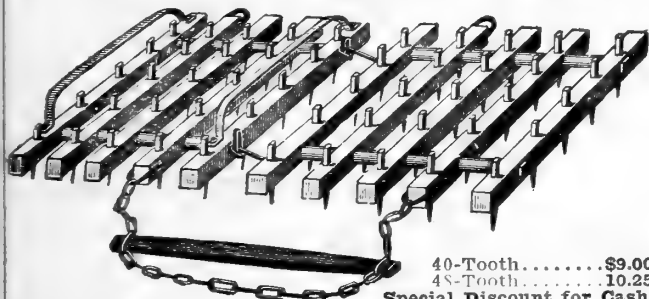


STEEL "U" BAR LEVER HARROW

Bars "U"-shape steel, main cross or connecting bars 2-inch steel channels. Headed steel teeth 1/2-inch and 5/8-inch square by 8-inch held firmly. Lever is attached to each section, by means of which teeth can be given any desired slant, for releasing trash, pulverizing or smoothing. Teeth easily released for adjustment of depth or sharpening.

Diagonal front braces. Steel runners attached to each corner of each section and turned down when teeth are thrown out of ground for transportation.

BALTIMORE DOUBLE HINGE HARROW



40-Tooth.....\$9.00

48-Tooth.....10.25

Special Discount for Cash.

This is a two-section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

GARDENER'S HARROW

This Harrow is similar to the Baltimore Double Hinge Harrow, noted above, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

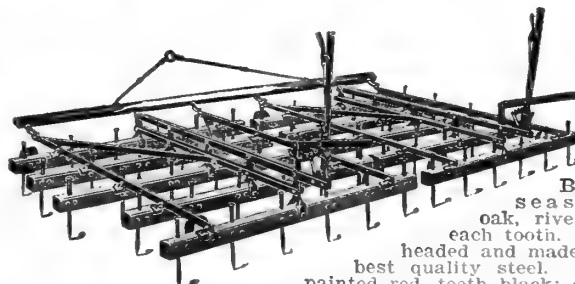
PRICE.

With 25 teeth.....\$5.50 With 30 teeth.....\$6.50

Made in 25 and 30-tooth sections.

2-Section, 50-Tooth, 1/2-inch Teeth, Weight, 196 lbs.	\$11.50
2-Section, 50-Tooth, 5/8-inch Teeth, Weight, 212 lbs.	12.00
2-Section, 60-Tooth, 1/2-inch Teeth, Weight, 216 lbs.	12.50
2-Section, 60-Tooth, 5/8-inch Teeth, Weight, 232 lbs.	13.50

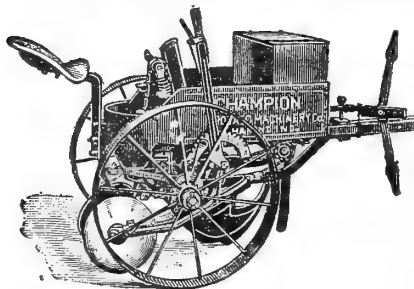
GRITCO WOOD BAR LEVER HARROW



Bars of seasoned oak, riveted at each tooth. Teeth headed and made from best quality steel. Frame painted red, teeth black; combination draw bars furnished for two, three and four-section harrows when ordered.

No. 2450—2-Section, 50-9/16-inch Teeth, Price.	\$12.00
No. 2450—2-Section, 50-5/8-inch Teeth, Price.	12.50
No. 2560—2-Section, 60-9/16-inch Teeth, Price.	12.50
No. 2560—2-Section, 60-5/8-inch Teeth, Price.	13.00

O.K. CHAMPION POTATO PLANTER



Opens the trench, plants the potatoes any distance set for, covers them with moist soil and marks for the next row. The fertilizer distributor will distribute any quantity of fertilizer desired. All that is necessary for the operator to do is to drive the team steady and keep the hoppers supplied with seed and fertilizer. The position of the driver is such that he can oversee the work of the planter at

all times. The accuracy with which the potatoes are planted is sufficient reason for the farmer to select an O. K. Champion. It will plant with equal satisfaction round or cut seed, each cup will pick up a seed and carry it into the spout from which it is dropped into the V-shaped trench opened by the shoe. The automatic feeding device consists of an endless chain with a series of cups attached running over the sprocket wheels, the top one resting on a spring cushion, which is designed to take up the jar whenever one of the wheels happens to drop into a rut or passes over a stone. The cups, used on the planter are of special design. The years of study given to this has enabled the manufacturers to produce a cup that will give good results.

No other planter has this feature, and careful study of the matter will convince the potato grower that to put your seed into the ground without bruising or otherwise mutilating it is the proper way to handle it.

Weight, with fertilizer attachment, 320 pounds.
List Price.....\$100.00
Our Special Price..... 60.00

"Peerless" Hand Potato Planter

THE LIGHTEST TUBULAR PLANTER MADE. Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

Our Special Price, \$1.00. List Price, \$1.60.

Directions for Using.—Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

"Acme" Hand Potato Planter

This is similar to the above except it is not tubular but a stick planter. We do not carry these in stock, but can furnish them direct from the factory. Same directions for working apply on this as on the "Peerless."

Our Special Price, 75c. List Price, \$1.00.



"Acme" Potato Digger Attachment

As seen in the cut, this is an attachment which consists of a fulcrum and handle which fits any good D Handle fork. A large part of the profit there should be in potato growing is lost in the digging—the part of the work that is slowest and most disagreeable. With this digger every hill is dug clean and quickly. The stock is left in good shape and free from mutilation. Picking up is quickly done, and the potatoes bring a price that has not been docked for digging culls.

Directions—Take the fork by the handle with the usual hand, with the other take the handle of the attachment. Thrust the fork straight down into the ground as near the hill as possible, stepping on the fork in the usual way. In so doing the Fulcrum hangs close to the fork and gets a firm bearing. Don't step on the Fulcrum. Pry up the hill to loosen it in the ground, then throw it out by a pull on the attachment handle. Don't stoop.

List Price.....\$1.50
Our Special Price.. 1.00

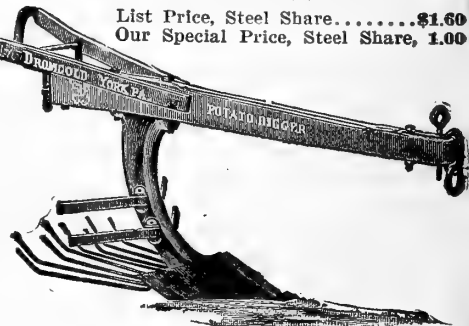


Hench & Dromgold Potato Digger

List Price, \$13.00. Our Special Price, \$8.00.

List Price, Steel Share.....\$1.60
Our Special Price, Steel Share, 1.00

Standards are made of cast iron, having on a highly-polished steel share. Side or wing pieces to the standard are bolted with a ratchet by which they can be adjusted to stand up or down as desired. Fingers extending back from the standard are made in a zig-zag form, instead of straight, as shown in cut, on account of which they separate the potatoes from the ground better. They are made of spring steel, and are very elastic and durable.



O. K. CHAMPION POTATO DIGGER

The O. K. Champion Digger with its many superior features commends itself to the careful buyer. It has stood the test of years and has many times proven to be the victor in the potato field over all competitors. Its construction embodies all the essential features which make it absolutely reliable. It is built with a view to simpleness, doing away with all unnecessary wearing parts, which accounts for its easy draught. Two horses will do the work with ease. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine.

The shovel is 20 inches wide, scooping up that width of ground and potatoes, depositing them on the elevator separating apron, whose links are alternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated up and down, causing the separation to be done with the least possible power requirements and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork row, thoroughly cleaning any remaining dirt from the potatoes, and depositing them in a row of about 12 inches behind the machine.



List Price \$125.00
Our Special Price \$75.00
Weight 580 Lbs.

Send for Special Catalogue

We also carry repairs for the Hitchcock Digger.
Steel Point—List Price, \$1.20. Our Special Price, 75c.
Beam—List Price, \$4.00. Our Special Price, \$2.50.
Cast Head—List Price, \$2.00. Our Special Price, \$1.25.

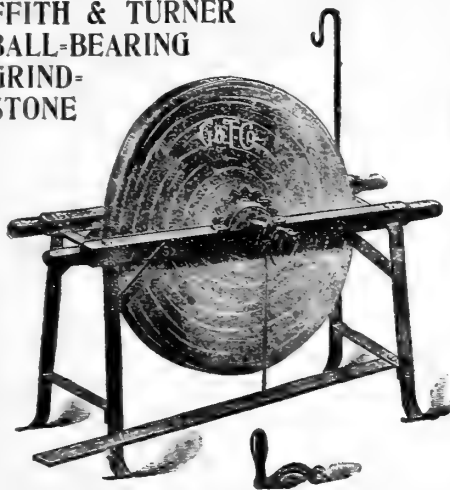
O. K. CHAMPION POTATO CUTTER

Cuts potatoes in exact sizes that are best suited to plant with any power planter. To cut by hand means all shapes, both large and small. Will cut five to seven bushels per hour. No power planter can plant correctly unless the tubers are cut an exact size. Planting large sized seed insures a better stand because there is more nourishment furnished the young plant than can be had from small seed. Many times it has been noticed that many potatoes will be up three or four inches before others break through the surface, and frequently they never show themselves, which failure is placed to bad seed, when really it is owing to too small seed.

List Price, \$10.00. Our Special Price, \$6.00.



GRIFFITH & TURNER BALL-BEARING GRIND- STONE



The G. & T. B. B. Grindstone has combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles.

No. 1 Stone, 90-110 pounds, each.....\$4.25

No. 2 Stone, 70-80 pounds, each.....4.00

No. 3 Stone, 40-50 pounds, each.....3.75

Stones usually furnished vary in thickness from 1 1/4 to 2 1/4 inches.

Weight of frame and fixtures only 32 pounds.

Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

Grindstone Fixtures as used on G. & T. Ball-bearing Stones, per set, \$1.00.

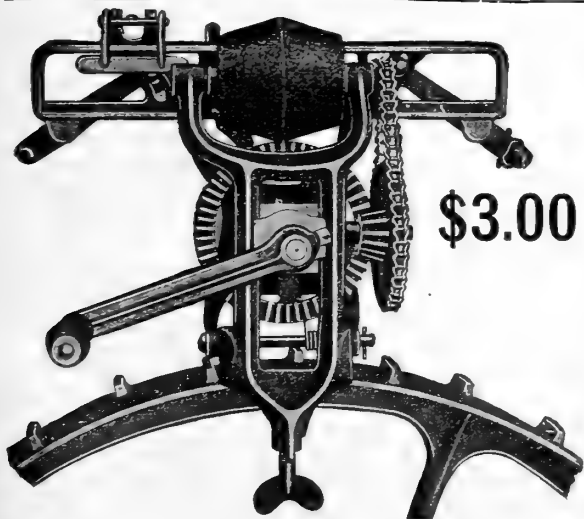
Cheaper Cast Grindstone Fixtures with 15-inch, 17-inch or 19-inch shaft, per set, 50c.

IMPROVED BARREL HEADERS

The Patent Screw Press

The Nos. 3 and 5 Screw Presses have the followers attached to screw, which device is patented. The follower attached to can revolve, and is taken up with the screw after the barrel is headed. The side clamps are fastened to the head with two bolts.

The Lever Press has an improved rotary connection between crosshead and side clamps. It can be operated from either side of the barrel.



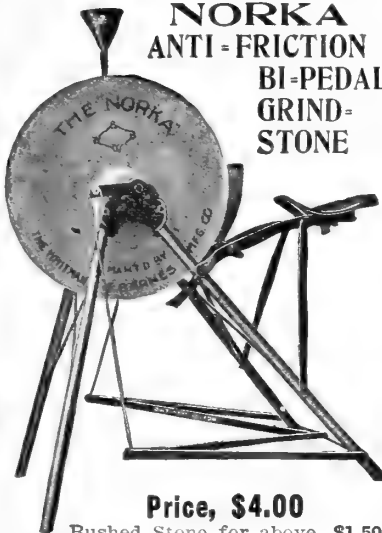
\$3.00

Diamond Sickle Grinder

Can be easily set to grind at any bevel. No clamping required to hold knife in position. Only two gears in entire machine. Emery wheel best obtainable; will not glaze nor draw temper from knives. Can furnish straight-faced stone when desired for grinding tools. Easily attached to bench, moving machine wheel or other suitable place.

PRICE, \$3.00.

NORKA ANTI-FRICTION BI-PEDAL GRIND- STONE



Price, \$4.00

Bushed Stone for above, \$1.50.

W. & B. BALL-BEARING GRINDSTONE

The W. & B. Ball-Bearing Grindstone is one of the strongest built, and is practically indestructible.

Price, \$4.50.



No. 3 Iron Screw Press

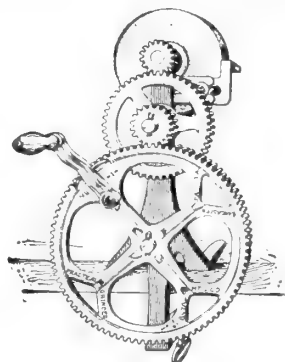
PRICES.

No. 3, similar to old No. 1, with 3/4-in. screw and follower attached.....\$1.50

No. 5, similar to old No. 2, with extra heavy 1-inch screw and follower attached.....1.75

No. 6, with lever. 1.50

ALUNDUM TOOL GRINDER



No. 01 as shown in cut is designed for household use. Weight, 4 lbs. Size of wheel, 3 1/2-inch diameter 3/4-inch face. Price, \$1.75.

No. A1, for use in house, on the farm or anywhere that tools need grinding. Weight, 7 lbs. Grinding wheel, 4-inch diameter, 1-inch face. Price, \$2.50.

Extra Grinding Wheels, \$1.00 each.

The Gritco Tool Grinder, No. 400, is similar to the No. A1 above, and is just the right kind of a grinder for putting the best edge on any kind of tool. Price, \$2.00.

The Gritco Tool Grinder, No. 405, is not so high-g geared as the No. 400. Price, \$1.50.

W. & B. BI-PEDAL GRINDSTONE

Tubular Frame with Roller Bearings.

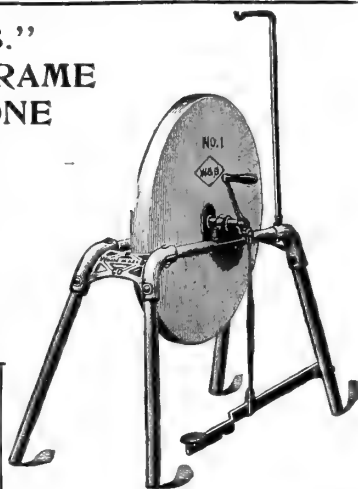
No. 10, each.....\$5.50 No. 20, each.....\$5.00

"W. & B." TUBULAR FRAME GRINDSTONE

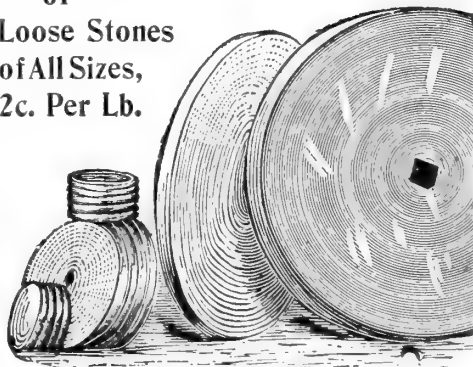
All parts fit perfectly, causing the stone to run true. Absolutely indestructible—nothing to wear out. Made in two sizes—No. 1, for 30-inch stone, and No. 2, for a stone 24 inches in diameter or less.

No. 1, each.....\$5.00

No. 2, each.....4.75

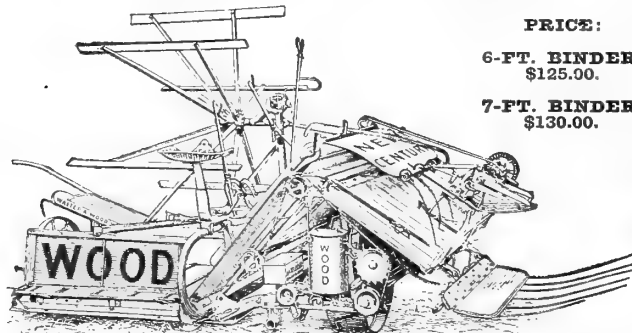


We Carry a Full Line of Loose Stones of All Sizes, 2c. Per Lb.



Walter A. Wood NEW CENTURY GRAIN BINDER

A GENUINE TWO-HORSE MACHINE.



PRICE:

6-FT. BINDER, \$125.00.

7-FT. BINDER, \$130.00.

Rigid main shaft of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z"-shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms, making perfect separation. Improved spring dropboard. Improved compression device. Unequaled knottor, grasper and tension. Binder driven from the rear. Easily threaded binder. Adjustable butting device. Ease and range of adjustment of binder. Improved and strengthened reel. New and improved simple transport. New tubular seat support. New spring tightener on drive chain. Improved non-wearing spring clutch. Improved support for rear end of crankshaft. Liberal use of roller and ball-bearings.



Price, 25c.
Special Prices
in Quantities.

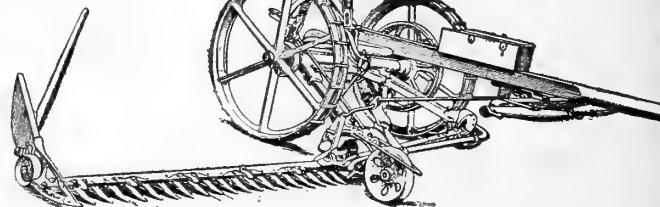
TEDDER FORKS

Always on hand, stock of forks for leading styles of hay tedders.

When ordering tedder forks always state name of tedder, year it was made, if possible, and whether fork is in one or two pieces.

Walter A. Wood Admiral Mowers

4 ft. 3 in. and 4 ft. 6 in., 2-horse..\$42.50
5 ft., 2-horse.. 45.00
6 ft., 2-horse.. 47.50



Wood two-horse Mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with patent axle extension, 5 feet or 6 feet. Wood Giant Mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle.

Walter A. Wood Vice-Admiral Mowers

With Steel Wheel, \$40.00.

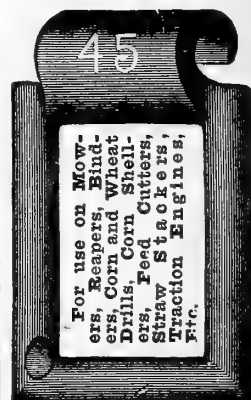
Wood one-horse Mowers cut a swath 3 feet 6 inches or 4 feet.

Link Chain Belting

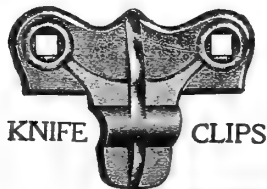
No.	Links per ft.	Working strain, lbs.	List price per ft. all plain links	Retail per link
25	13.3	75	11c.	2c.
32	10.4	150	11c.	2c.
33	8.6	200	11c.	3c.
34	...	...	11c.	...
35	7.4	250	11c.	3c.
42	8.75	300	12c.	3c.
45	7.4	350	11c.	3c.
48	6.	375	13c.	4c.
52	...	...	18c.	...
55	7.4	450	16c.	4c.
62	7.25	650	22c.	5c.
65	5.66	550	18c.	6c.
72 1/2	7.25	925	37c.	7c.
76 1/2	5.8	700	25c.	8c.

BINDER CANVAS SLATS

Each, 5c.



For use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Feed Cutters, Straw Stackers, Tractor Engines, Etc.



KNIFE CLIPS



WOOD PITMANS

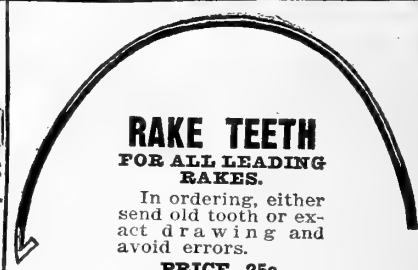
PITMAN STRAPS OR CLASPS



WEARING PLATES

Binder Canvas Staples

Per Pound, 20 cents.



RAKE TEETH

FOR ALL LEADING RAKES.

In ordering, either send old tooth or exact drawing and avoid errors.

PRICE, 25c.

KNIFE CLIPS

To fit the Following Machines:	Price, Each.
Champion, A413, A468, A467, A693..	\$.10
Deering, F94, E461, F92.....	.10
McCormick, M254, M533, H496, H919, L39.....	.10
McCormick, M290, M293, M652.....	.15
Milwaukee, J1, Osborne, E36.....	.10
Osborne (Columbia), K256.....	.20
Plano, J46, J106, J325.....	.10
Wood, 171, 1432.....	.10

PITMAN STRAPS OR CLASPS

to Fit the Following Machines:

Malleable Deering, D464, D465, D605, D606, D470, D607. Each.....	\$.20
Malleable McCormick, M556, M557, M147, M304, M315. Each.....	.20
Malleable Milwaukee, PJ9, PJ9 1/2, PH34, PH35, PG34, PG35, PJ34, PJ35. Each.....	.20
Malleable Plano, J118, J119, J120, J121. Each.....	.20
Plano, J378, Steel (will answer for 355). Plano, J379, Steel (will answer for 356). Plano, J380, Steel (will answer for 357, 358). Each...	.20

WOOD PITMANS

(Without Pitman Box and Bolts.) To Fit the Following Machines:	
Deering (Ideal Mower), 1901 and since, D1471.....	\$1.50
McCormick (Big 4 Mower), 1896 and since, M392.....	1.50
Milwaukee (No. 6 Mower), 1894 and since, PN290.....	1.50
Plano (Jones Mower), 1901 and since, No. 7394.....	1.50

WEARING PLATES

To Fit the Following Machines:

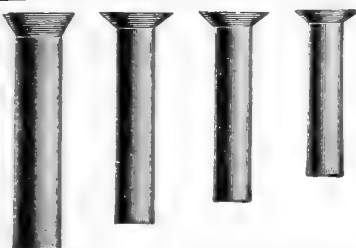
Champion, H315, Under Shoe Cap.	
Champion, H282, Under Clips.	
Deering, D1038, Under Clips.	
Deering, 1040, Under Shoe Cap.	
Deering, D1455, Under Shoe Cap.	
McCormick, M468, Under Clips.	
McCormick, M490, Under Shoe Cap.	
Milwaukee, PK156, Under Clip PJ1.	
Milwaukee, PG157, Under Shoe Cap.	
Osborne, K325, Under Clips.	
Osborne, K326, Under Shoe Cap.	
Plano, 7094, Under Clips.	
Plano, 7095, Under Shoe Cap.	
List Price, ea., 15c. Retail Price, ea., 10c.	

PITMAN WOODS Finished and Bored, Without Straps, Bolts or Boxes. To fit the following machines: Deering (Ideal Mower). McCormick (Big 4 Mower). Milwaukee (No. 6 Mower). Plano (Jones Mower). Each, 40c.

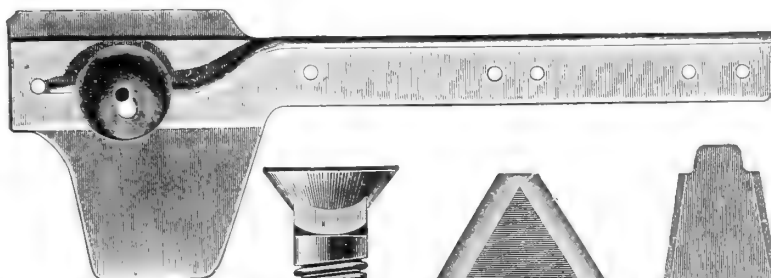
PITMAN BOLTS

To Fit the Following Machines:

Deering Knife End. Deering Box End. McCormick, M322, with Nut; M433, with Nut 2 1/2 x 7/16; 483 1/2, with Nut 3 x 7/16.	
Milwaukee, with Horn Nut, PG174.	
Milwaukee, with Ratchet Nut, PG175.	
Osborne, Box End (Long).	
Osborne, Knife End (Short).	
Plano, 7/16 x 3, with Nut J134.	
Plano, 7/16 x 2 1/2, with Nut J103.	
Plano, 7/16 x 2 1/2, with Nut J147.	
Plano, 7/16 x 2 1/2, with Nut J363.	
Each, 10c.	
Buckeye, complete with washers...	\$.15
Champion, H442, with Nut.....	.15
Champion, H609, with Nut.....	.15
Champion, 1/2-inch, Left, A96.....	.20
Champion, 1/2-inch, Right, No. 13...	.20
Champion, 3/4-inch.....	.20
Wood, with Nut.....	.20



SECTION AND GUARD RIVETS.



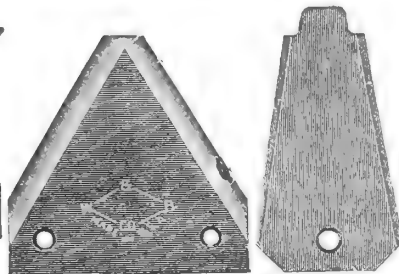
KNIFE HEAD.



GUARD.



GUARD BOLT. SMOOTH SECTION. LEGER PLATE.



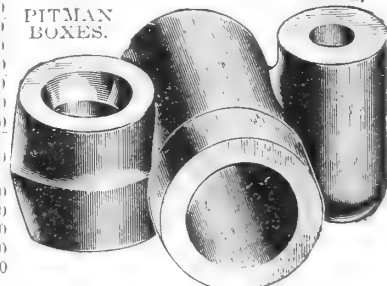
MOWER SMOOTH SECTIONS, KNIVES AND GUARDS

REAPER SICKLE.

MOWER KNIFE.

Made to fit the following Machines.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete. 4 1/2 ft. 5 ft.	Pitman Boxes No.	List Price of Pitman Boxes.	Retail Price of Pitman Boxes.
Wood	3x3 1/4	.05	L	.25	1680	.35	\$2.40 \$2.50	539-540	.60	.50
Wood	3x2 5/8	.05	P. P.	.25	1810	.35	2.40 2.50	291 1/2	.60	.60
Wood	3x3 1/4	.05	D 698	.25	F 123	.35	2.40 2.50	1785	.60	.40
Deering	3x3 1/4	.05	F 1/2	.25	F 174	1.00	2.40 2.50	D 334	.90	.80
Deering	3x3 1/4	.05	F 99 1/4	.25	F 74	1.00	2.40 2.50			
Deering	2 1/4 x 3 1/8	.05	M 462	.25	M 139	.25	2.40 2.50	M 317	.50	.40
McCormick	3x3 1/16	.05	M 253	.25	M 139	.25	2.40 2.50			
McCormick	3x3 1/16	.05	A 41	.25	A 115	.50	2.40 2.50			
Champion	3x3 1/16	.05	A 811	.25	A 415	.50	2.40 2.50	A 747	.50	.40
Champion	3x3 1/16	.05	A 465	.25	A 415	.50	2.40 2.50			
Champion	3x3 1/4	.05	A 41	.25	B 37	.50	2.40 2.50			
Osborne	3x3 High Punch	.05	K 280	.25	K 284	.25	2.40 2.50	K 278	.90	.50
Osborne	3x3 Low Punch	.05	K 72	.25	K 212	.25	2.40 2.50			
Johnston	3x3 3/4	.05	1811	.25	919	.25	2.40 2.50			
Johnston	3x3 1/4	.05	77	.25	124	.25	2.40 2.50	257	.10	.40
Plano	3x3 1/4	.05	J 110	.25	J 94	.25	2.40 2.50	J 100	.30	.25
Plano	3x3 1/4	.05	P K 5	.25	P G 6	.25	2.40 2.50	J 99	.75	.40
Milwaukee	3x3 1/4	.05	3687	.25	557 F	.40	2.40 2.50	P J 50	.80	.25
Milwaukee	3x3 1/4	.05	775	.25	301	1.00	2.40 2.50	P J 173	.25	.25
Adriance Buckeye	3x3 1/4	.05	775	.25	301	1.00	2.40 2.50			
Akron Buckeye	3x3 3/4 Low Punch	.05	A 16	.25	A 57	1.00	2.40 2.50			
Akron Buckeye	3x3 3/4 High Punch	.05	A 185	.25	15	1.00	2.40 2.50			
Whiteley	3x3 1/2 Low Punch	.05	40	.25	66 B	.50	2.40 2.50			
Whiteley	3x3 1/2 High Punch	.05	40	.25	66 B	.50	2.40 2.50			
Eureka	3x2 3/4	.05	40	.25	66 B	.50	2.40 2.50			
Eureka	3x3 1/4	.05	A	.25	Mal. Lock Nut	1.00	2.40 2.50			
Manny	3x3 3/4	.05	W	.25	1470	1.00	2.40 2.50			
Warrior	2 1/4 x 3	.05	V	.25	1639	.50	2.40 2.50			
Warrior	2 1/4 x 2 3/4	.05	635	.25	6139	.50	2.40 2.50			
Triumph	3x3 1/4	.05	55	.25	Forged	1.00	2.40 2.50			
Empire	3x3 3/4	.05	400	.25	736	.50	2.40 2.50			
Bradley	3x3 1/4	.05								

PITMAN BOXES.



BINDER SICKLE SECTIONS, GUARDS AND KNIVES

Made to fit the following Machines.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete. 6 ft. 6 1/2 ft. 7 ft.
Wood Binder	3 x 2 3/4	.05	W	.25	H 2139	.40	\$2.75 \$3.00 \$3.00
Wood Binder	3 x 2 1/4	.05	H 174	.25	H 1150	.25	2.75 3.00 3.00
Deering Bind r.	3 1/2 x 2 1/4	.05	287	.25	A 46	.50	2.75 3.00 3.00
Deering Bind r.	3 1/2 x 2 1/8	.05	H 195	.25	B 23	.25	2.75 3.00 3.00
McCormick Binder	3 x 2 1/4	.05	1753	.25	1852	.50	2.75 3.00 3.00
Champion Binder	3 x 2 1/4	.05	D 300	.25	B 587	.25	2.75 3.00 3.00
Osborne Binder	3 x 2 1/4	.05	50 A	.25	L 296	.25	2.75 3.00 3.00
Johnston Binder	3 x 2 1/4	.05	L 300	.25	L 395	.25	2.75 3.00 3.00
Plano Binder	3 x 2 1/4	.05	L 67	.25	L 66	.25	2.75 3.00 3.00
Plano Binder	3 x 2 1/4	.05	J 76	.25	H 1175	.25	2.75 3.00 3.00
Milwaukee Binder	3 x 2 1/4	.05	1265	.25	1215 A	.40	2.75 3.00 3.00
Adriance Binder	3 x 2 1/4	.05	T 35	.25	H 700	1.00	2.75 3.00 3.00
Akron Buckeye Binder	3 x 2 1/4	.05	2	.25	615	.70	2.75 3.00 3.00
Triumph Binder	3 x 2 1/4	.05					

Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 15c. lb. Guard Bolts for all Machines, 4c. each.
 Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.

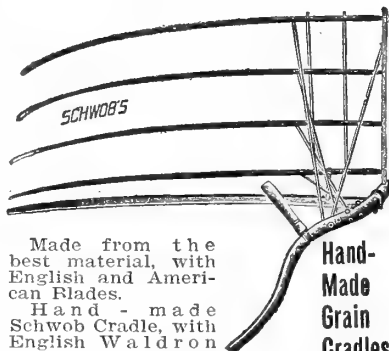
COTTER.

NOVELTY LAWN WEEDER

A Great Back-Saver.

The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod.

Price, 75c.



Made from the best material, with English and American Blades.

Hand - made Schwob Cradle, with English Waldron Blade. Retail, \$4.50.

Hand-made Schwob Cradle, with American Blade. Retail, \$3.25.

GIANT CORN THINNER and WEED PULLER

This view shows the Giant Thinner in operation, which is a great improvement over the old way.

With proper care corn may be pulled out of hard ground with no breaking off. No more tired backs, but a pleasure to thin corn. The entire implement is made of steel, except the handle, making it very durable.

It will be found very useful for taking up all kinds of weeds, briars, narrow plantain, etc.

Weight, 3½ pounds. Price, \$1.25.



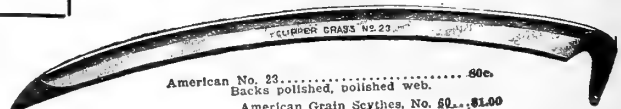
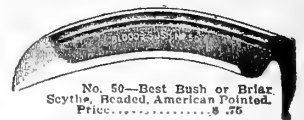
SCYTHE STONES

No. 2—White Mountain.....10c. each, \$1.00 doz.
No. 3—Green Mountain..... 8c. each, 75c. doz.
No. 4—Indian Pond, No. 2 (red end), 5c. each, 50c. dz.
No. 5—Mowing Machine (beveled).....10c.
No. 6—Darby Creek.....10c. each, \$1.00 doz.

No. 7—Imported English Talacre, 20c. each.

None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

SIR PYERS MOSTYN TALACRE QUARRIES



English T. Waldron, 36 in....\$1.35 Eng. Waldron Grain Scythes, 60 in. 1.75
English T. Waldron, 38 in.... 1.40 Eng. Waldron Grain Scythes, 52 in. 1.30
English T. Waldron, 40 in.... 1.45 Eng. Waldron Grain Scythes, 54 in. \$1.30

THE AMERICAN SICKLE EDGE HAY KNIFE

The best cutting knife made. Right or left hand. Section can be easily replaced. Price.....\$1.25

LIGHTNING PATTERN HAY KNIFE

Price, 75c.



No. 80—Ring Fastening Socket, iron trimmed. Retail price..... 65c.
No. 85—Patent Loop, solid plate, iron trimmed. Retail price..... 75c.
No. 100—Two Rings, Bush Snath. Retail price..... 85c.
No. 105—Patent Bush Snath. Retail price.....\$1.00

SILVER & DEMING DRILLS



No. 112. SHORT LENGTH.

Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks ½-inch diameter.

Diam.	L'gth in.	List Pr. ea.	Retail Pr. ea.	Diam.	L'gth in.	List Pr. ea.	Retail Pr. ea.
1-8	4 7/8	\$0.45	\$0.23	13-16	6	\$1.35	\$0.67
5-32	4 7/8	.48	.24	27-32	6	1.40	.70
3-16	5 5/8	.50	.25	7-8	6	1.45	.73
7-32	5 5/8	.55	.28	29-32	6	1.50	.75
1-4	6	.60	.30	15-16	6	1.60	.80
9-32	6	.65	.33	31-32	6	1.70	.85
5-16	6	.70	.35			1.80	.90
11-32	6	.73	.36	1 1-32	6	1.90	.95
3-8	6	.75	.37	1 1-16	6	2.00	1.00
13-32	6	.78	.39	1 3-32	6	2.10	1.05
7-16	6	.80	.40	1 1-8	6	2.20	1.10
15-32	6	.83	.41	1 5-32	6	2.25	1.13
1-2	6	.85	.43	1 3-16	6	2.30	1.15
17-32	6	.88	.44	1 7-32	6	2.35	1.18
9-16	6	.90	.45	1 1-4	6	2.40	1.20
19-32	6	.95	.48	1 9-32	6	2.50	1.25
5-8	6	1.05	.53	1 5-16	6	2.60	1.30
21-32	6	1.10	.55	1 11-32	6	2.70	1.35
11-16	6	1.15	.58	1 3-8	6	2.80	1.40
23-32	6	1.20	.60	1 13-32	6	2.90	1.45
3-4	6	1.25	.63	1 7-16	6	3.00	1.50
25-32	6	1.30	.65	1 15-32	6	3.10	1.55
				1 1-2	6	3.20	1.60

The above drills have shanks 2¼ inches long and ½ diameter.

JOBBER'S DRILLS No. 105

JOBBER'S MACHINISTS' SETS.



Diameter.	Length, Inches.	List Price, per dozen.	Retail Price, per dozen.	List Price, Each.	Retail Price, Each.
1-16	2 1/2	\$1.00	\$0.60	\$0.09	\$0.05
3-32	2 3/4	1.20	.70	.11	.06
1-8	3	1.45	.85	.13	.07
5-32	3 1/4	1.80	.95	.16	.09
3-16	3 1/2	2.20	1.25	.20	.11
7-32	3 3/4	2.65	1.50	.23	.13
1-4	4	3.15	1.80	.28	.15
9-32	4 1/4	3.65	2.10	.32	.20
5-16	4 1/2	4.20	2.40	.37	.21
11-32	4 3/4	4.80	2.75	.42	.25
3-8	5	5.40	3.10	.48	.28
13-32	5 1/4	6.00	3.50	.53	.31
7-16	5 1/2	6.80	3.90	.59	.34
15-32	5 3/4	7.50	4.20	.65	.37
1-2	6	8.00	4.60	.70	.41

For very exact work, a gauge, plainly marked, should accompany an order.

Bit-Stock Drills

FOR METAL OR WOOD, No. 109.

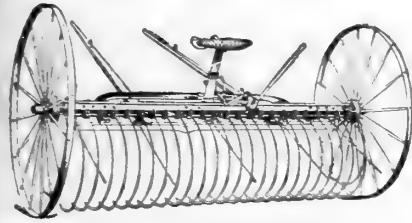


Diameter.	List Price, per dozen.	Retail Price, per dozen.	List Price, Each.	Retail Price, Each.
2-32	\$1.50	\$0.75	\$0.14	\$0.07
3-32	1.65	.85	.16	.08
4-32	2.10	1.05	.20	.10
5-32	2.60	1.30	.24	.12
6-32	3.10	1.55	.29	.15
7-32	3.60	1.80	.33	.18
8-32	4.10	2.05	.38	.20
9-32	4.70	2.35	.43	.25
10-32	5.40	2.70	.48	.26
11-32	6.50	3.15	.54	.27
12-32	7.20	3.60	.62	.31
13-32	8.00	4.00	.68	.34
15-32	9.60	4.80	.82	.41
16-32	10.30	5.15	.87	.45
9-16	14.35	....	1.20	.60
5-8	16.15	....	1.35	.65
3-4	19.75	....	1.65	.85

These Drills will fit any brace on the market. Will drill steel, iron or other metals as well as wood. Will bore any kind of wood without splitting.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BALTIMORE STEEL-DUMP HAY RAKE



An efficient, convenient rake of great strength and durability. One-piece angle steel frame; steel axle extends from wheel to wheel and trussed to give double strength. Trip attachment very simple. It is attached to center of axle; equipped with hand lever; oil tempered steel teeth within independent tooth-holders; combined pole and shafts.

8 ft., 20 Teeth...List Price, \$36.00. Our Special Price, \$22.50
9 ft., 24 Teeth...List Price, 40.00. Our Special Price, 24.00

Walter A. Wood Steel Self-Dump Rakes

8 ft., with 20 Teeth. List Price, \$38.00. Our Special Price, \$23.00
8 ft., with 24 Teeth. List Price, 40.00. Our Special Price, 24.00
9 ft., with 27 Teeth. List Price, 42.00. Our Special Price, 25.00

Thomas Reliable Steel Self-Dump Rake

8 ft., 20 Teeth...List Price, \$36.00. Our Special Price, \$22.50
9 ft., 23 Teeth...List Price, 38.00. Our Special Price, 24.00

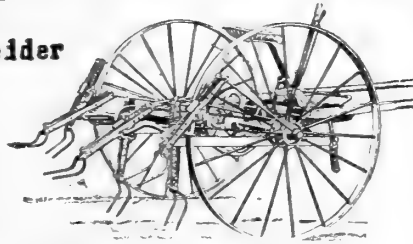
THOMAS HAND-DUMP WOOD RAKE.—Very popular.
8 ft., 20 Teeth...List Price, \$34.00. Our Special Price, \$22.00

Lord Baltimore Steel Tedder

Well-built, large ground wheels, free from vibration. Center chain drive.

6-Fork. List Price, \$64.00. Our Special Price, \$7.00.

8-Fork. List Price, \$70.00. Our Special Price, \$41.00.



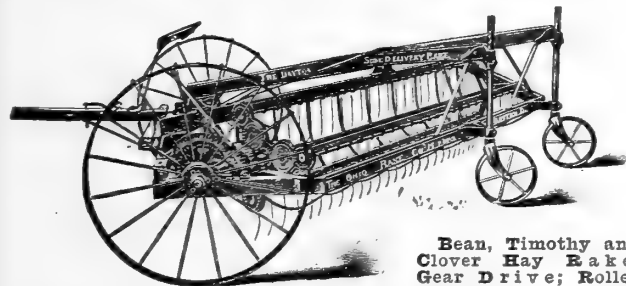
Walter A. Wood Tedder

6-Fork. List Price, \$64.00. Our Special Price, \$37.00
8-Fork. List Price, 70.00. Our Special Price, 41.00

Thomas Steel Triumph Tedder

6-Fork. List Price, \$64.00. Our Special Price, \$37.00
8-Fork. List Price, 70.00. Our Special Price, 41.00

Lord Baltimore Side-Delivery Rake



Bean, Timothy and Clover Hay Rake; Gear Drive; Roller Bearings.

Gathers the hay on the ground, and delivers it at one end of the machine in a continuous windrow. It is an all-gear drive machine; heavy, strong and powerful all the way through. List Price, \$100.00; Our Special Price, \$60.00.

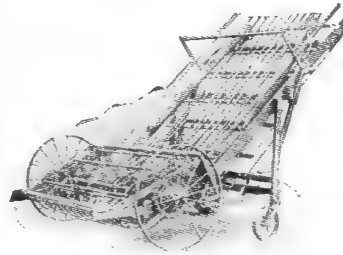
Rake Teeth

FOR ALL LEADING RAKES

In ordering, either send old tooth or exact drawing and avoid errors

List Price, 36c. Our Special Price, 25c.

Lord Baltimore Hay Loader



Has been carefully designed and embodies all of the up to date improvements.

By means of a simple adjustment, provided on each axle box, the rake bars can be raised or lowered to meet various conditions of the soil and the hay. This adjustment makes it unnecessary for the hitches on loader to be changed.

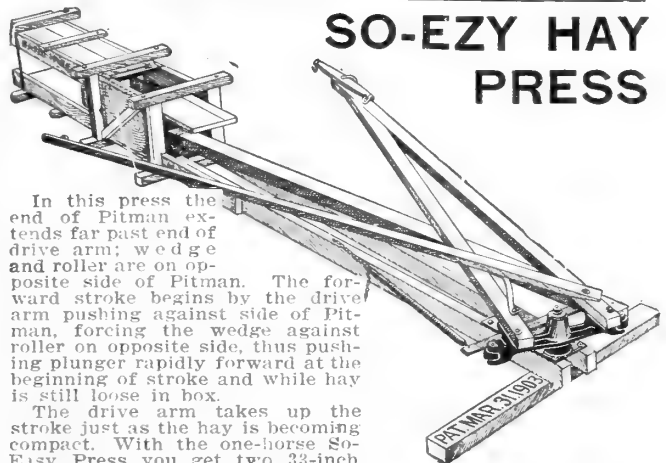
The rake bars are open construction, so that every part is visible.

The Lord Baltimore Hay Loader will certainly meet the wants of every farmer that desires a machine which is free of all complicated and intricate parts. Wheels, 46 inches diameter. Weight, 1213 lbs.

No. 1, with Steel Wheels, List Price, \$104.00; Our Special Price, \$65.00.

WRITE FOR CATALOGUE AND PRICES OF OUR BELT POWER HAY PRESSES.

SO-EZY HAY PRESS



In this press the end of Pitman extends far past end of drive arm; wedge and roller are on opposite side of Pitman. The forward stroke begins by the drive arm pushing against side of Pitman, forcing the wedge against roller on opposite side, thus pushing plunger rapidly forward at the beginning of stroke and while hay is still loose in box.

The drive arm takes up the stroke just as the hay is becoming compact. With the one-horse So-Ezy Press you get two 33-inch strokes to one round of horse.

Our Special Price.
1-Horse Press, unmounted..... \$150.00 \$90.00
1-Horse Press, mounted..... 190.00 120.00

Rapid-Fire Hay Press

Very similar to the above, but a lighter machine. One-horse, full circle, two strokes, light draft, strong, simple, durable. Unmounted, List Price, \$120.00. Our Special Price, \$70.00. Mounted, List Price, \$160.00. Our Special Price, \$90.00.

Baling Ties



Cross Head.

Measure around the bale and add three inches to get the proper length. We carry 8½ and 9-ft. Cross Head and 9 and 9½-ft. Single Loop. Can furnish any other stock size or style.

CROSS HEAD BALE TIES.—9-ft., No. 14, \$2.25. 8½-ft., No. 15, \$1.90.

SINGLE LOOP BALE TIES.—9-ft., No. 14, \$1.60. 9½ ft., No. 14, \$1.70. 8½-ft., No. 15, \$1.35.

A bundle contains 250 ties.

ANNEALED BALING WIRE.—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.

Tedder Forks

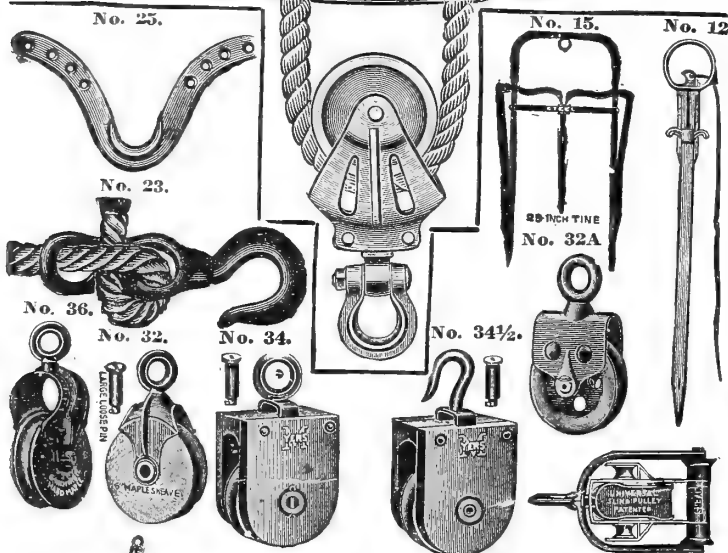
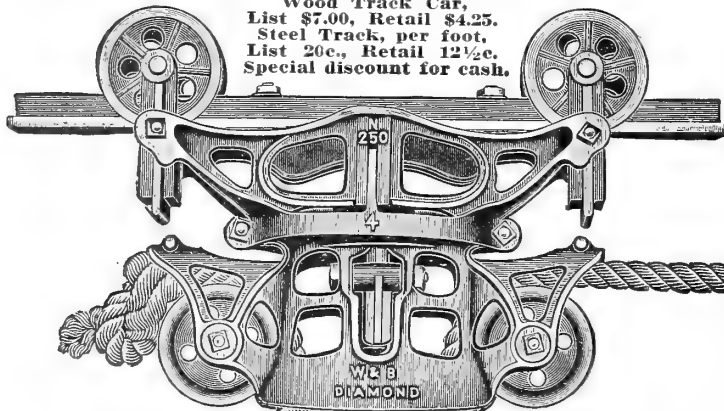


List Price, 40c. Our Price, 25c. Special Prices in Quantities.

Always on hand, stock of forks for leading styles of hay tedders.

When ordering tedder forks, always state name of tedder, year it was made, if possible, and whether fork is in one or two pieces.

"DIAMOND" Wide Mouth Swivel and Reversible Carrier with Independent Single Trucks.
 Steel Track Car, List \$7.00, Retail \$4.25
 Wood Track Car, List \$7.00, Retail \$4.25.
 Steel Track, per foot, List 20c., Retail 12½c.
 Special discount for cash.



	List.	Retail
No. 36—Knot Passing Pulley...	\$4.00 doz.	\$0.25
No. 34½—Wood Frame Pulley, with Hook	4.00 "	.25
No. 34—Wood Fr. Pulley with Eye	4.00 "	.25
No. 32A—All Iron Pulley, has 5½-in. sheave, swivel eye...	3.20 "	.20
No. 32—Maple Sheave Pulley, 6-in. sheave	3.20 "	.20
No. 25—Rafter Bracket, steel...	.60 "	.05
No. 25—Rafter Bracket, malleable	.60 "	.05
No. 23—Swivel Rope Hitch	3.20 "	.20
Hoisting Single Tree	1.60 ea.	1.25
Rafter Grapple, steel	10.00 doz.	.60
No. 15—Double Harpoon Hay Fork, 25-in. tines	1.60 ea.	1.00
No. 16—Double Harpoon Hay Fork, 31-in. tines	2.00 "	1.50
No. 17—Double Harpoon Hay Fork, 34-in. tines	2.50 "	2.00
No. 12—Nellis Single Harpoon Fork	3.00 "	2.00
No. 42—Snatch Block	11.00 doz.	.75
No. 7—4-Tine Aut. Grapple Fork	7.00 ea.	4.50
No. 8—6-Tine Aut. Grapple Fork	8.50 "	5.25
Centre Trip Sling, 4-ft. bars	3.20 "	2.00
Centre Trip Sling, 5-ft. bars	3.80 "	2.50
Centre Trip Sling, 6-ft. bars	5.00 "	3.50
Universal Sling Pulley	3.00 "	2.00
Ideal Sling Pulley	3.00 "	2.00
Baltimore Sling Pulley	3.00 "	2.00
No. 21—14-in. Hanging Hook, wood track	1.20 doz.	.08
Hanging Hook, steel track	1.40 "	.08
No. 20—Floor Hook, 5½-in.	1.20 "	.08
No. 20—Floor Hook, ¾-in.	1.40 "	.08
Extra Trips or Stops for Cars	.60 ea.	.50
Couplings for Track	.10 "	.10
Rafter Nails, per lb.	.10 "	.10
Steel Track, per foot	.20 "	.12½

NO WEAK POINTS
 Steel Track, List Price, Per Foot, 20c.
 Our Special Price, 12½c.



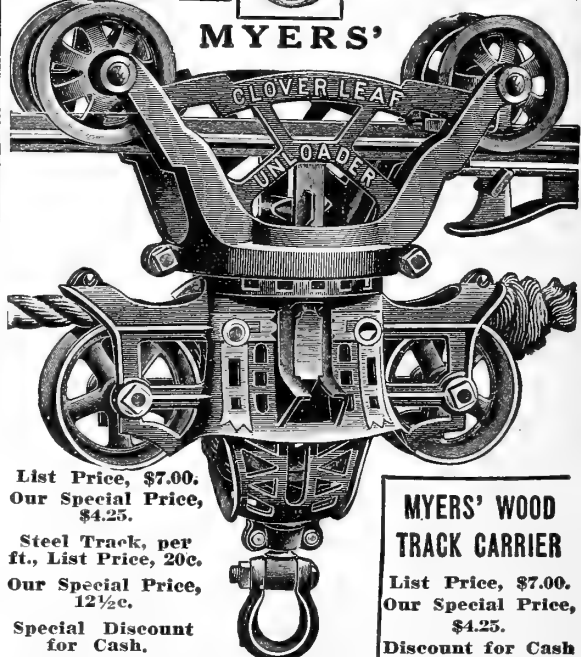
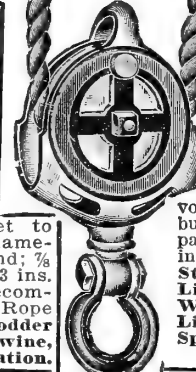
GRITCO SWIVEL REVERSIBLE STEEL TRACK HAY CARRIER No. 4
FOR FORK OR SLING

Car is easily and quickly reversed from the floor, contains no lugs or pins to break; heavier than cars ordinarily sold through this section.

Entirely of malleable iron and high grade. Track, traveler and rope pulley sheaves revolve on turned iron bushing. Car will not pass the trip-block while in operation.

Steel Track Carrier, List \$7.00, Ret'l \$4.25
Wood Track Carrier, List \$7.00, Ret'l \$4.25
 Special Discount for Cash.

ROPE
 Always on hand, the best Manila, Sisal and Cotton Rope, in coils or by the piece.
Prices on Application.
 Approximate length of Manila and Sisal Rope, per pound: ¾ diameter, 6 feet to pound; 13-16 diameter, 6 feet to pound; ¾ diameter, 4 feet 3 ins. to pound. We recommend 13-16 inch Rope for hay forks. Fodder Yarn, Binder Twine, Prices on Application.



MYERS'

CLOVER LEAF UNLOADER

List Price, \$7.00.
 Our Special Price, \$4.25.

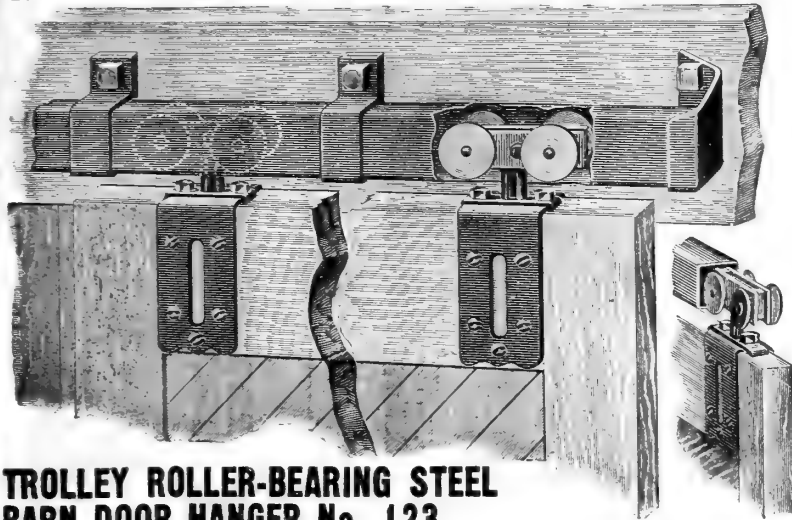
Steel Track, per ft., List Price, 20c.
 Our Special Price, 12½c.

Special Discount for Cash.

MYERS' WOOD TRACK CARRIER

List Price, \$7.00.
 Our Special Price, \$4.25.
 Discount for Cash

Material Required for a Steel Track Outfit.
For a 40-Foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet ¾-inch reverse rope.
For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet ¾-inch reverse rope.
For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila rope, 60 feet ¾-inch reverse rope.



TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER No. 123

Weight, per pair, 10 lbs. Pendant 6 inches long, 3 1/4 inches wide, 3-16 inch thick. These Hangers have lateral adjustments, and are suitable for doors from 1 1/2 to 2 1/4 inches thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-end bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors. No. 131 track, No. 16 gauge. Per pair, \$1.75.

TROLLEY HANGER No. 124 Same as No. 122 above; same adjustment. Suitable for doors 2 1/2 to 3 inches thick. Weight, per pair, 12 lbs. Trolley Hangers include one left-end bracket, No. 50; one right-end bracket, No. 51, and one center bracket, No. 52. No. 131 track, No. 16 gauge. Per pair, \$2.00.

No. 124 1/2 Roller-Bearing Steel Barn and Fire Door Hanger

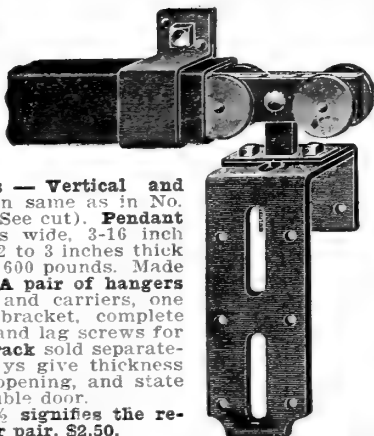
A pair of hangers consists of two hangers, one each right and left-end brackets, and one center bracket complete with wood and lag screws.

The only Adjustable Double Apron made. Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1—For doors 1 1/4 to 2 1/4 inches thick; weight, 12 lbs. No. 2—For doors 2 1/4 to 3 inches thick; weight, 12 lbs.

The 1/2 in the No. 124 1/2 signifies the return or double apron. Per pair, \$2.25.

TROLLEY HANGER No. 224 Weight, per pair, 12 lbs. Pendant 9 inches long, 3 1/4 inches wide, 3-16 inch thick. Suitable for doors from 2 to 3 inches thick, weighing from 400 to 600 lbs. Adjustment lateral and vertical; Track No. 16 Gauge, No. 131 Type. Same equipment included in price as other Trolley Hangers. Per pair, \$2.25.

No. 224 1/2 Trolley Roller-Bearing Steel Barn Door Hanger



Has two adjustments — Vertical and lateral. Has return apron same as in No. 124 1/2, described above. (See cut). Pendant 9 inches long, 3 1/4 inches wide, 3-16 inch thick. Suitable for doors 2 to 3 inches thick and weighing from 400 to 600 pounds. Made to run on No. 13 track. A pair of hangers consists of two hangers and carriers, one right and one left-end bracket, complete with screws for hangers and lag screws for brackets. Hangers and track sold separately. When ordering, always give thickness of door, exact width of opening, and state whether for single or double door.

The 1/2 in the No. 224 1/2 signifies the return or double apron. Per pair, \$2.50.

Trolley Hangers

Retail Price,
Per Pair.

Trolley Hangers, No. 123	\$1.75
Trolley Hangers, No. 124	2.00
Trolley Hangers, No. 224	2.25
Trolley Hangers, No. 124 1/2	2.25
Trolley Hangers, No. 224 1/2	2.50

No. 131 Track, for any of the above Trolley Hangers, per foot, 12 1/2 c. Extra Brackets for any above Hangers, each 15c.

STAY ROLLERS

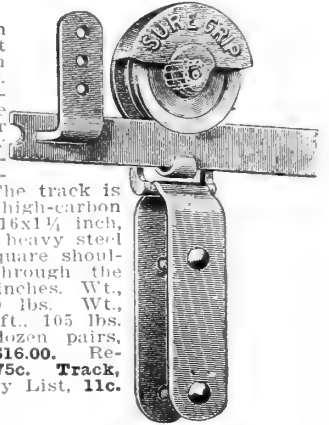


For use on Barn Door Hangers. Price, each, 15c.

Flexible Hinge Barn Door Hanger

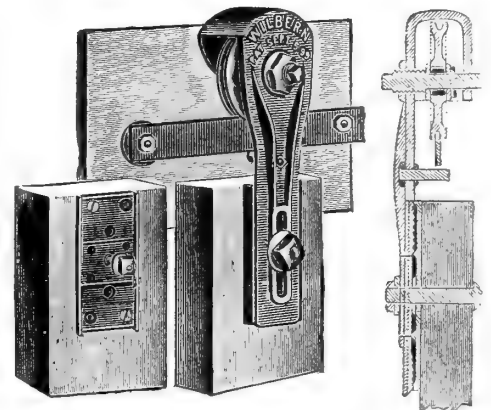
No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1 1/4 inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Wt., dozen pairs, 70 lbs. Wt., track, per 100 ft., 105 lbs. Hangers, per dozen pairs, Factory List, \$16.00. Retail, per pair, 75c. Track, per foot, Factory List, 11c. Retail, 6c.



No. 0 Wilbern Adjustable Barn Door Hanger

Vertical and Lateral Adjustment.



This hanger is designed especially for barn doors and for light factory doors. In the vertical adjustment a half-inch bolt passing entirely through the door is used instead of a cap screw. The plate is fastened to the door with flat-head screws. Will run on any stock track from 1-inch to 1 1/4-inch wide without jumping. Weight, per dozen pairs, 80 pounds.

ITS MERITS.—It has lateral adjustment, which is secured by a threaded axle. This permits a door to be moved in or out, so that it can be hung close to the wall, or chafing on the wall can be easily corrected. It has vertical adjustment, which is secured by a plate and a ratchet. This permits a door to be moved up or down, so that it can be hung close to the floor, or scraping on the floor can be easily corrected. Double doors can be fitted snugly together. It can't jump the track, being tied on by an adjustable stop, which passes under the rail. Price, per pair, \$1.00. One-inch Track, per foot, 4c.; 1 1/4-inch Track, per foot, 6c.

Anti-Friction Barn Door Hanger No. 2

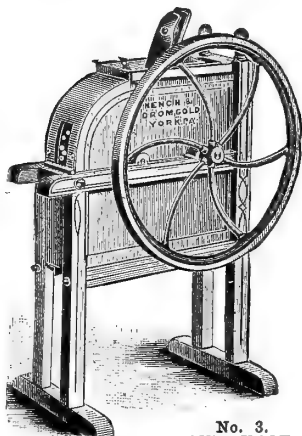
PRICE, PER PAIR, 50c.



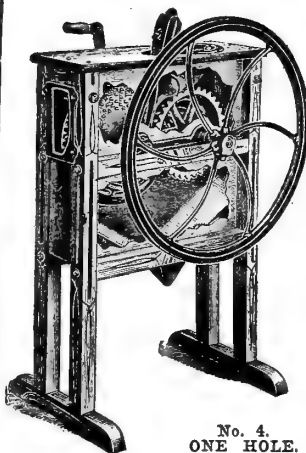
Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks.

The track is made of special carbon open-hearth steel, 1x3-16 stock; has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4, 6, 8 and 10-foot lengths. Price, per foot, 4c.

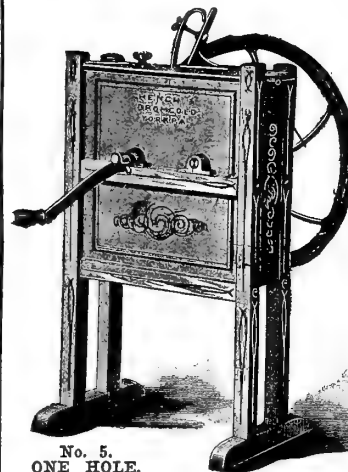
THE BALTIMORE SHELLERS

No. 3.
ONE HOLE.

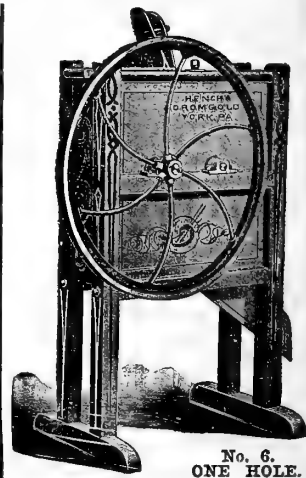
Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bus. a day. Plain, List Price, \$11.00; Our Special Price, \$7.00. With Fan, List Price, \$12.00; Our Special Price, \$7.50.

No. 4.
ONE HOLE.

Screens corn; side delivery; light running; strong steel shafts. Capacity, 125 bushels a day. Plain, List Price, \$11.00; Our Special Price, \$7.00.

No. 5.
ONE HOLE.

Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated. List Price, \$10.50; Our Special Price, \$6.50.

No. 6.
ONE HOLE.

Runs shelled corn and cobs together. Capacity, 125 bushels per day.

Plain Sheller, List Price, \$10.30; Our Special Price, \$6.00.

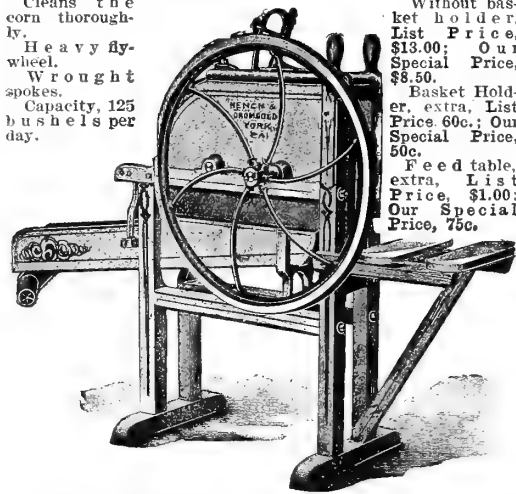
No. 2 SINGLE HOLE

Cleans the corn thoroughly.

Heavy fly-wheel.

Wrought spokes.

Capacity, 125 bushels per day.



Without basket holder, extra, List Price, \$13.00; Our Special Price, \$8.50.

Basket Holder, extra, List Price, \$6.00; Our Special Price, 50c.

Feed table, extra, List Price, \$1.00; Our Special Price, 75c.

"Black Hawk" Corn Sheller

Weight, 14 Pounds. Shells Fast, Clean and Easily.

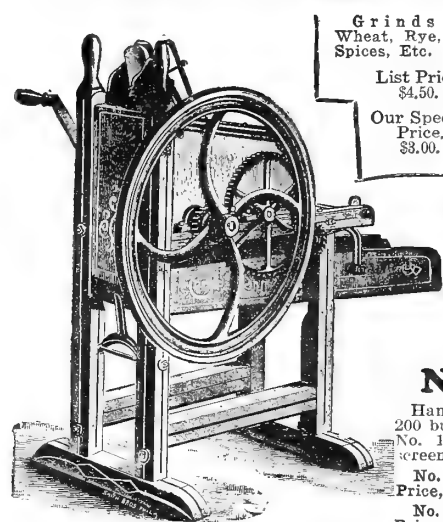
Black Hawk is simple, easily adjusted and will shell clean all kinds of field corn.

List Price, dozen, \$34.00; Our Special Price, each, \$2.00.

1903
BLACK HAWK
CORN SHELLEROld Dominion style P
Hand Corn Sheller

See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Weight, crated, 20 lbs.

List Price, dozen, \$32.00; Our Special Price, each, \$2.00.

Black Hawk
Feed Mill

Grinds Corn, Wheat, Rye, Rice, Spices, Etc.

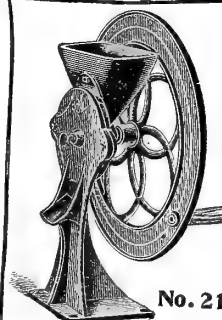
List Price, \$4.50.

Our Special Price, \$3.00.



17 Lbs.

Just the thing for cracking corn, etc., for Poultry. Makes Best Graham Flour and Meal for Table Use.



No. 21

O. D. Grinding Mills



No. 1 F. W.

No. 20 Double Spout

Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. No. 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

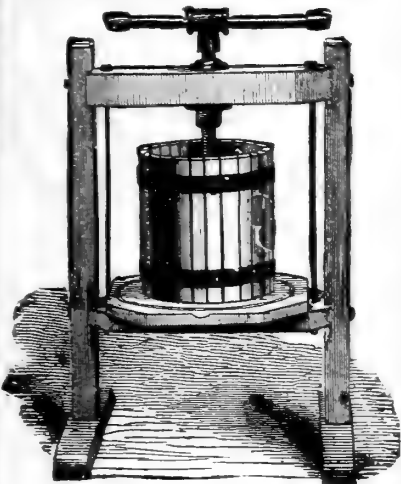
No. 20, with shaker, List Price, \$25.00; Our Special Price, \$15.00.

No. 18, without shaker, List Price, \$23.00; Our Special Price, \$14.00.

Capacity 1 to 2 bushels per hour, as the mill may be set fine or coarse. Note flat construction of balance wheel. May be adjusted for meal or only cracking the grain.

	List Price	Our Special Price
No. 1 F. W. Fly Wheel	\$4.50	\$2.75
No. 1 C. with crank only, less fly wheel	3.20	2.00
No. 21, with stand and fly-wheel	5.50	3.50

BERRY PRESS



List Price. Our Spec'l Price.

No. 1, weight 50 lbs. . . \$6.00 \$3.75
 No. 2, weight 65 lbs. . . 7.50 4.50
 No. 3, weight 90 lbs. . . 12.00 7.00

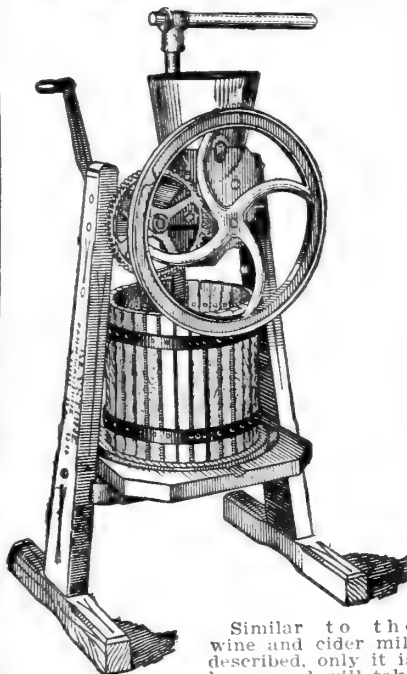
HUTCHINSON PATTERN. WINE AND CIDER MILL

Will make from 5 to 10 gallons at a time. All of the juice of the apples can be gotten out. It is intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

List Price. Our Spec'l Price.

No. 0—Single Cage Mill. . . \$14.00 \$8.00
 No. 1—Single Cage Mill. . . 16.00 9.75

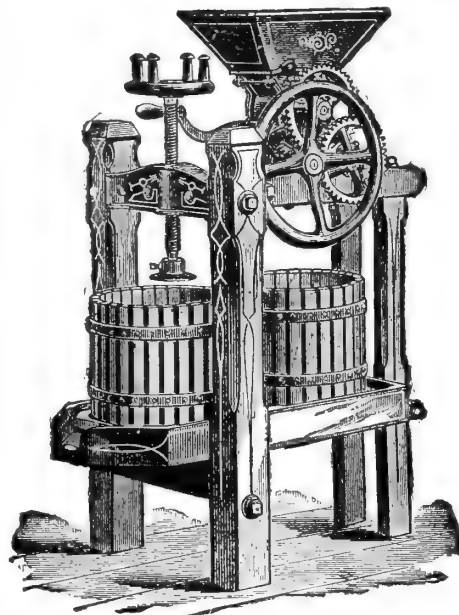
BALTIMORE SPECIAL CIDER AND WINE MILL



Similar to the wine and cider mill described, only it is larger and will take larger apples, and, being a geared mill, will do much more rapid work.

List Price. \$16.00
 Our Special Price. 9.75

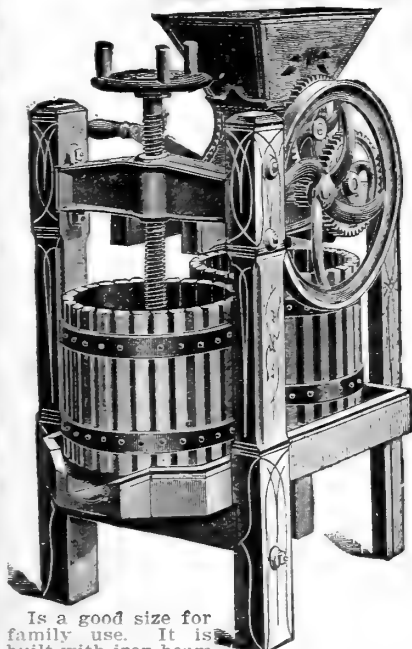
"JUNIOR" DOUBLE CAGE HAND CIDER MILL



This is a small double cage mill of good capacity, and will work in a very satisfactory manner. It is made of hardwood, and, having specially constructed grinders, gives good results. Capacity, 2 to 4 barrels of cider per day. Weight, 220 lbs.

List Price. \$20.00
 Our Special Price. 12.00

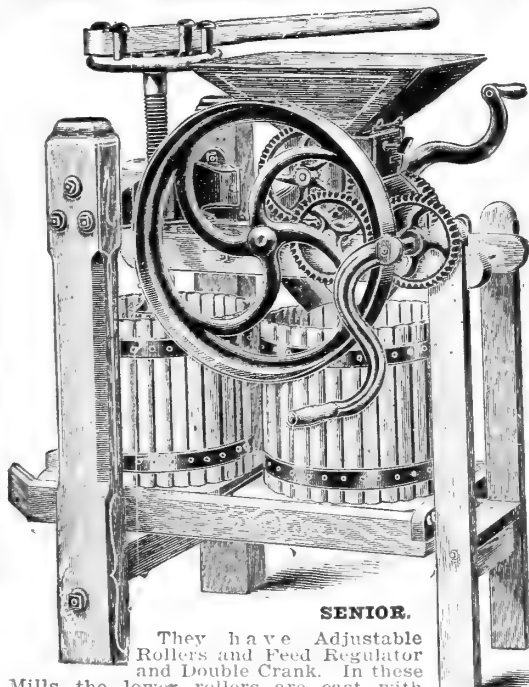
"MEDIUM" DOUBLE CAGE HAND CIDER MILL



Is a good size for family use. It is built with iron beam and heavy gearing, and is perfectly adjustable for all sizes of apples. Capacity 6 to 8 barrels of cider per day. Weight, 240 lbs.

List Price. \$26.00
 Our Special Price. 16.00

"Senior" Hand and Power Cider Mill

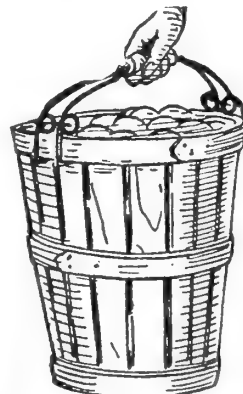


SENIOR.

They have Adjustable Rollers and Feed Regulator and Double Crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the apples. Fruit is mashed between the smooth segments, thoroughly breaking all the cells so that cider is entirely extracted in press. Balance wheels are heavy and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of cider per day. Weight, 475 lbs.

List Price, \$32.00; Our Special Price, \$20.00.

Removable Basket Handles

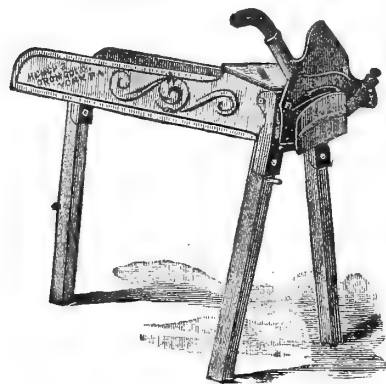


Easily and quickly adjusted. Saves fruit and time. Baskets carried without mashing fruit.

List Price, dozen. \$2.50
 Our Special Price, each. 15

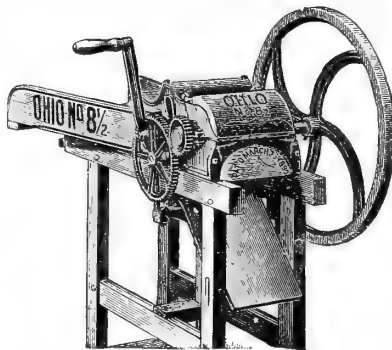
Maryland Levor Cutter

Strong, Cheap and Durable.



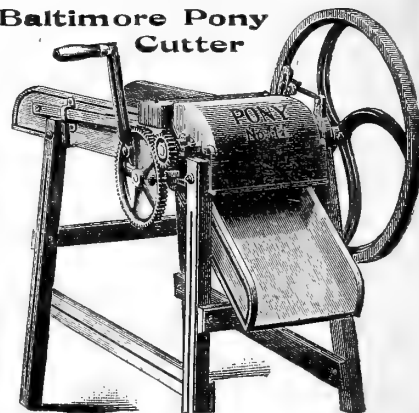
Knife, 11-inch. Wt., 55 lbs.
Retail \$3.00

"Ohio" Hand Feed Cutter



No.	Length of Knives, of Inches.	Length of Cut, Inches.
8 1/2	2	1/4, 3/8, 1/2
10 1/2	2	1/4, 3/8, 1/2
Less 30 per cent. retail.		

Baltimore Pony Cutter



Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals.

Weight, K. D., packed for shipment, 160 pounds.
One knife, 11 1/4 in. long...
List. \$20.00
Retail. \$25.00
List. \$14.00
Retail. \$10.00

NEW OHIO SHREDDER

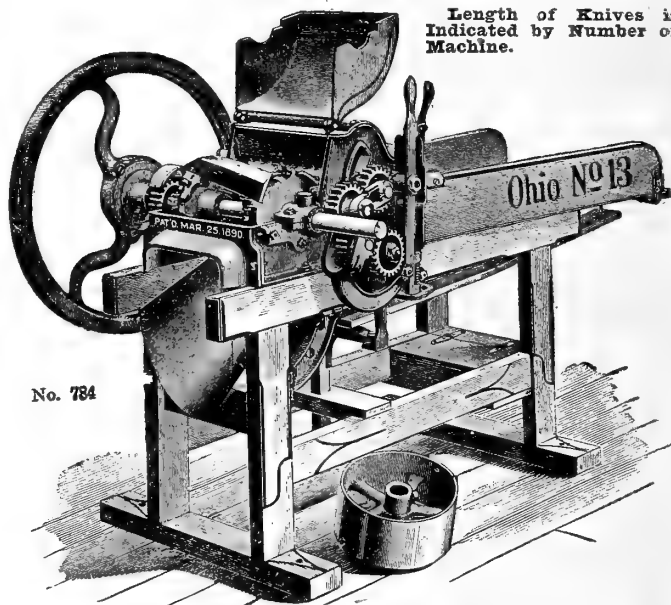
Our new shredder blade successfully reduces the fodder to the proper conditions with the same power, speed and capacity as the regular Ohio Cutter. Interchangeable on all sizes with the knives. Nothing extra but the shredder blades. Least cost, best results. Does not pulverize the leaves like saw-blade or tooth-shredders, but splits and tears the stalks perfectly. The greatest saving in this new shredder is that perfect work can be done running at normal speed (600 to 700 revolutions), which means that the same power that runs the cutter will run the shredder.

No.	With shredder blades only...	2 Blades. 4 Blades.
No. 11	\$41.50	\$48.00
No. 13	61.50	68.00
No. 16	88.00	94.00
No. 18	117.50	125.00
No. 19	196.75	205.00

Shredder blades for No. 11, which interchange with knives, each, \$2.25. Shredder blades: For No. 13, \$2.65; No. 16, \$3.00; No. 18, \$3.75; No. 19, \$4.15 each.

Machines, less 30 Per Ct. Knives, Shredder Blades and Extras, net prices.

"Ohio" Standard Feed and Ensilage Cutter



Length of Knives is Indicated by Number of Machine.

No. 784

No. 9	With safety flywheel and pulley, two knives...	\$35.00
No. 9	With safety flywheel and pulley, four knives...	40.00
	When furnished with extended knife shaft to place flywheel or pulley on either side, extra...	2.00
No. 11	With two knives, 11 inches long, cuts 1/2, 1 1/2 and 2 inches...	40.00
No. 11	With four knives, 11 inches long, cuts 1/4, 1/2, 3/4 and 1 inch...	45.00
No. 11	With two shredder blades, no knives...	41.50
No. 11	With four shredder blades, no knives...	48.00
	Reversible carrier, angle or straight delivery, 12 ft. long or less...	33.75
	Straight-delivery carrier, without reversible attachments...	30.25
	Additional length over 12 feet, extra per foot...	1.70
	Extra gears to cut four inches long with two knives, No. 11 only...	3.00
	Cutting knives, each...	1.50
	Shredder blades, interchangeable with knives, each...	2.25
No. 13	With two knives, 13 inches long, cuts 1/2, 1 1/2 and 2 inches...	60.00
No. 13	With four knives, 13-in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 560 lbs.	65.00
No. 13	With two shredder blades, no knives...	61.50
No. 13	With four shredder blades, no knives...	68.00
No. 16	With four knives, 16-in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 620 lbs.	90.00
No. 16	With four shredder blades, no knives...	94.00
No. 18	With four knives, 18-in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 700 lbs.	120.00
No. 18	With four shredder blades, no knives...	125.00
	Straight-delivery carrier, 12 ft. long or under, for Nos. 13, 16 or 18...	33.50
	Swivel carrier, 12 feet long or under, for Nos. 13, 16 or 18...	45.00
	Carrier, extra, over 12 feet long, per foot...	1.70
	Wood cover, with hooks and eyes to fasten, per foot...	.25
	Extra gears to cut 4-inch long, with 2 knives, Nos. 13, 16 and 18...	4.00
	Cutting knives for No. 13, \$1.75; No. 16, \$2.00; No. 18, \$2.50 each.	
	Shredder blades for No. 13, \$2.65; No. 16, \$3.00; No. 18, \$3.75 each.	

Machines, less 30 Per Ct. Knives, Shredder Blades and Extras, net prices.

POWER AND SPEED REQUIRED TO RUN THE VARIOUS ENSILAGE MACHINES.

No.	Speed Cutters Alone.	Revolutions.
9-1 H. P.	Speed, 400 to 600	
11-1 to 2 H. P.	Speed, 400 to 600	
13-2 to 4 H. P.	Speed, 450 to 600	
16-4 to 6 H. P.	Speed, 450 to 600	
18-5 to 8 H. P.	Speed, 450 to 600	

Blowers and Cutters.

12-8 H. P.	Speed, 650 to 700
14-10 H. P.	Speed, 650 to 700
17-10 to 12 H. P.	Speed, 650 to 700
19-16 to 20 H. P.	Speed, 600 to 750

Carriers and Cutters.

13-4 to 6 H. P.	Speed, 450 to 600
16-6 to 8 H. P.	Speed, 450 to 600
18-6 to 10 H. P.	Speed, 450 to 600
19-8 to 12 H. P.	Speed, 450 to 600

The power here given on Carriers is applicable when cutting green ensilage.

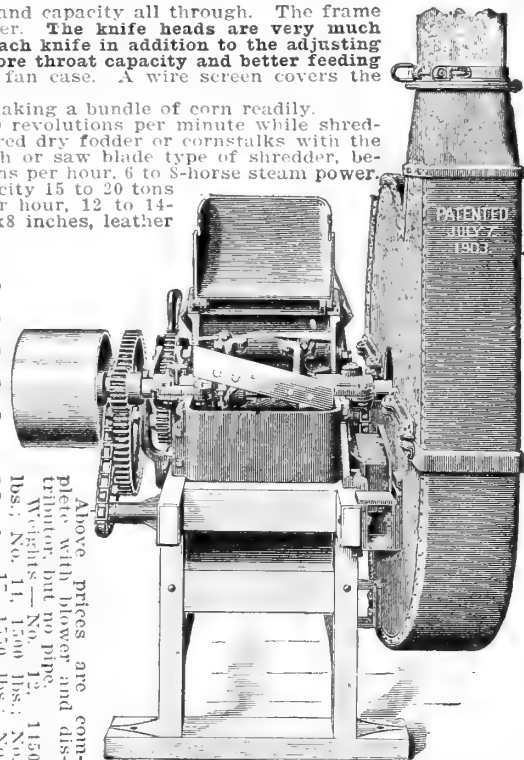
"OHIO" SELF-FEED ENSILAGE CUTTER With Direct Blast Blower Elevator

As compared with the "Ohio" Standard machines, there is more weight and capacity all through. The frame is heavier and well braced. The knife shaft is steel, 1 1/2 inches in diameter. The knife heads are very much heavier, the cylinder larger in diameter, and there are four strong bolts in each knife in addition to the adjusting set screws at the back. The raise of the feed rolls is greater, thus giving more throat capacity and better feeding qualities. The conveyor beneath the knives carries the cut silage into the fan case. A wire screen covers the outer end of the conveyor case.

The traveling feed table is full width of the machine and 8 feet long, taking a bundle of corn readily. The new patent-applied-for shredder blade should be run at 600 to 700 revolutions per minute while shredding, and is a notable advance in construction, enabling the operator to shred dry fodder or cornstalks with the blower. There is a great saving in power also as compared with the tooth or saw blade type of shredder, besides saving the leaves in much better condition. No. 12, capacity 8 to 10 tons per hour, 6 to 8-horse steam power. No. 14, capacity 12 to 15 tons per hour, 10-horse steam power. No. 17, capacity 15 to 20 tons per hour, 10 to 12-horse steam power. No. 19, capacity 20 to 25 tons per hour, 12 to 14-horse steam power. Speed, 650 to 700 revolutions per minute. Pulley, 12x8 inches, leather covered.

SIZES AND PRICES.

No. 12, with four 12-inch knives, cuts 1/4, 1/2 and 1 inch, and Blower complete, with new distributor for top of pipe.....	\$160.00
No. 14 "Monarch" Cutter, four 14-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	185.00
No. 17 "Monarch" Cutter, four 17-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	220.00
No. 19 "Monarch" Cutter, four 19-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe.....	250.00
10-inch galvanized pipe in 4, 6, 8 and 10-foot lengths for No. 14, No. 17 or No. 19 Cutter, per foot.....	.90
New Silo Tube, to distribute ensilage inside silo; made in 3-foot sections, hung together by hook and links; flexible, easily taken apart. Top section 3 feet long with flaring top. List, \$3.00. Other sections, 3 feet long, complete, each. List.....	3.00
Extra gears to cut 4 inches long with two knives, Nos. 14, 17, 19....	5.50
Shredder blades for No. 14, \$3.00; No. 17, \$3.75; No. 19, \$4.15 each.	
Machines, less 30 Per Ct. Knives, Shredder Blades and Extras, net prices.	



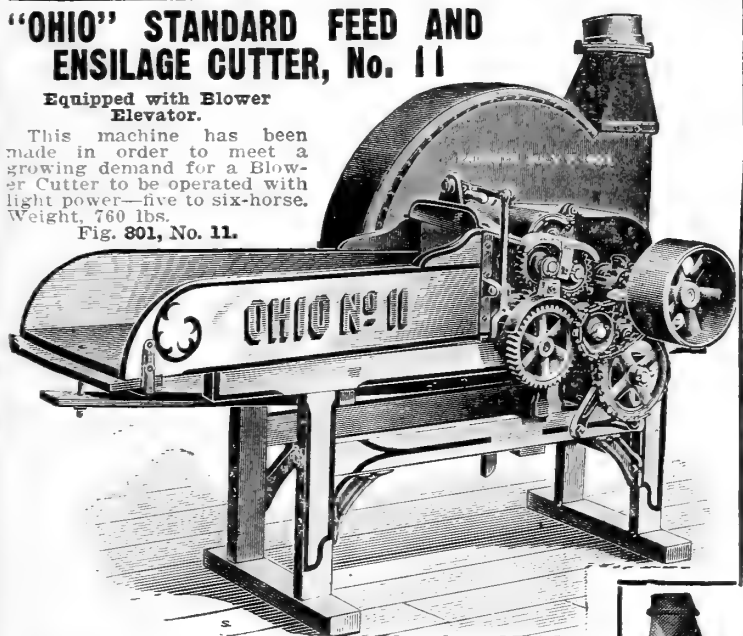
Above prices are complete with blower and distributor, but no pipe. Weights—No. 12, 1450 lbs.; No. 14, 1500 lbs.; No. 17, 1500 lbs.; No. 19, 1500 lbs.

"OHIO" STANDARD FEED AND ENSILAGE CUTTER, No. 11

Equipped with Blower Elevator.

This machine has been made in order to meet a growing demand for a Blower Cutter to be operated with light power—five to six-horse. Weight, 760 lbs.

Fig. 801, No. 11.



The No. 11 Cutter has long been our most popular size for general farm use. It is adapted to cutting all kinds of dry feed as well as ensilage, is strongly and durably built, has large capacity and requires but slight power to run. The pipe is 7 inches in diameter and is made of galvanized steel with standing seam on the outside, running lengthwise, being very rigid. It is made in 4, 6 and 10-foot lengths, with 7-inch slip joints and a clamping band at each joint. The pipe connection at the fan case is a swivel joint, which gives the pipe the proper angle for convenience and best results, and allows it to turn in any direction. Included with each machine is a hood or elbow, which is to connect to upper end of pipe and convey the cut ensilage into the silo.

Set Pipe Nearly Perpendicular for Ensilage. Dry Feed Can Be Blown in Any Direction.

No. 11—With two 11-inch knives, cuts 1/4, 1/2 and 2-in....	\$95.00
No. 11—With two shredder blades, no knives.....	96.50
Above prices are for machines complete with Blower and Hood, but no pipe.	
7-in. galvanized pipe in 4, 6 and 10-ft. lengths, per ft....	\$.60
Extra gears to cut 4 inches long with two knives.....	3.50
Cutting knives, each.....	1.50
Shredder blades, interchangeable with knives, each....	2.25
Note.—No. 11 Blower, made only with two knives.	

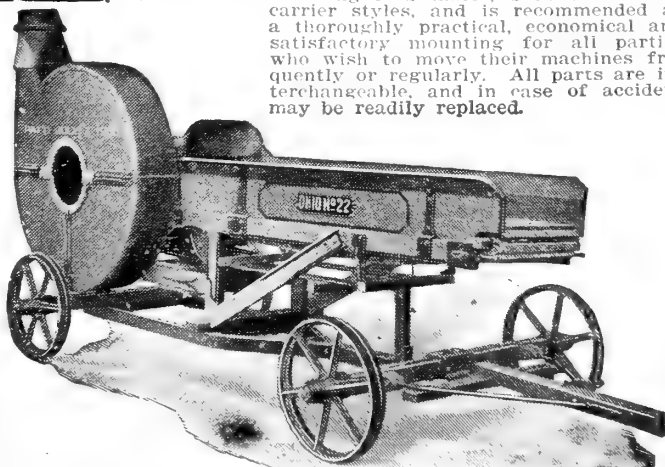
Machines, less 30 Per Cent. Knives, Shredder Blades and Extras, net prices.

NEW STEEL TRUCK

FOR MOUNTING "OHIO" ENSILAGE CUTTERS.

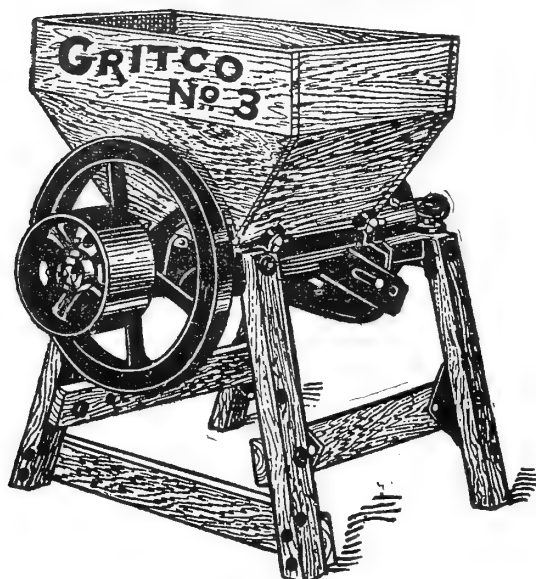
The frame is of steel throughout. The axles and reach are made of 3-inch steel channels, the axle channels being firmly bolted face to face over a wood core. Distance between front and rear axles is 8 feet 4 inches. The wheel tread is 5 feet 2 inches. The cast-iron wheels, 24 inches in diameter, are built to wear. The frame is securely put together. When mounted complete the machine is but 12 inches from the ground and the top of feed table 45 inches from ground. By sinking the wheels or removing them, the axles may be let down on to the ground, in which case the machine would be but 3 inches from ground, the thickness of the steel reach. The highest point of feed table would then be only 36 inches from ground, thus no staging or platform would be required to get corn to the machine.

This outfit is suitable for all sizes of "Ohio" silage cutters with traveling feed tables, both blower and carrier styles, and is recommended as a thoroughly practical, economical and satisfactory mounting for all parties who wish to move their machines frequently or regularly. All parts are interchangeable, and in case of accident may be readily replaced.



Price of Truck, without neck yoke or double trees, weight 600 lbs., \$50.00. Less 30 per cent. retail.

GRITCO GRINDING MILLS



High-Grade Mills for grinding ear corn or small grain. Run lightest, grind fastest. Made in two sizes: **Gritco No. 2 Mill**, for 2 to 6 H. P. engines, will grind 10 to 15 bushels per hour with three H. P.

Gritco No. 3 Mill, adapted to engines from 5 to 15 H. P. Capacity, 20 to 60 bushels ground feed per hour. These mills (see cut) are made of iron and steel with exception of legs and grain hopper. Crushing device designed especially to do work thoroughly with least possible power. Drive pulley, crusher and grinding plates all on one shaft, insuring easy running mill. Grinding plates of No. 2 Gritco Mill are 8 inches in diameter and of No. 3 are 10 inches. Made of very hard metal and with ordinary care are capable of long service. Each Mill is supplied with one set of coarse plates for ear corn and one set of fine plates for small grain. So constructed that plates can be taken out and changed in very little time. Quality of the feed regulated by temper screw at right. End of steel shaft which carries crusher and running plate is encased in an improved form of sleeve, in back of which is ball-bearing shown in cut, and against which shaft rests, thus taking end-thrust, reducing friction to a minimum.

Shaft boxes are both babitted with good grade of metal. The back of the still plate rests against a ring with planed surface, and by an accurate system of "lining up" the grinding plates "tram" perfectly, thus securing a uniform grade of grinding of any desired quality. When ordering give horse power, speed of engine and diameter of driving pulley. Price, No. 2, \$25.00. No. 3, \$35.00.

Regular pulleys for Gritco No. 2 Mills, 8x4, 10x4, 12x4, 14x4. For machines with pulleys 6 inches wide, add to price of machine \$1.00.

Regular prices for Pulleys for Gritco No. 3 Mills, 12x6. For machines with larger pulleys, add 50c. to price of machine.

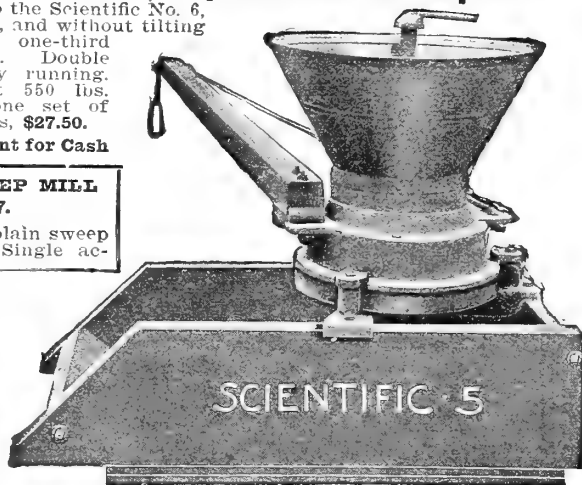
Scientific No. 5 Triple-Geared Sweep Mill

Is similar to the Scientific No. 6, except smaller, and without tilting hopper about one-third less capacity. Double action, easy running. Weighs about 550 lbs. Price, with one set of grinding plates, \$27.50.

Special Discount for Cash

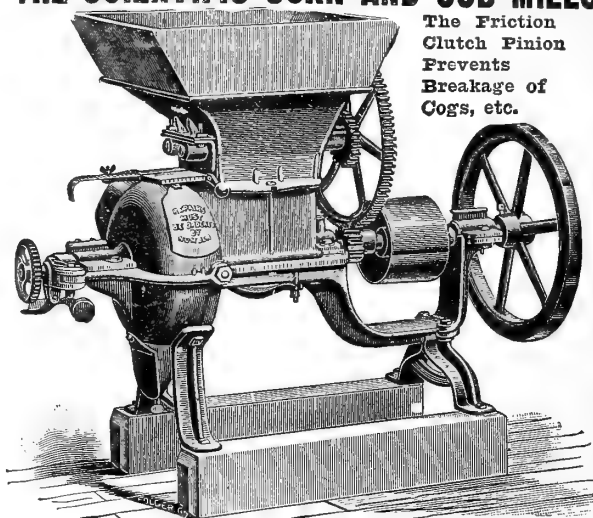
PLAIN SWEEP MILL No. 7.

We carry a plain sweep power mill. Single action. Grinds successfully ear corn and all kinds of small grain. One or two-horse, capacity, 5 to 8 bushels per hour. Weighs 400 lbs. Price \$20.00. Special Discount for Cash.



THE SCIENTIFIC CORN AND COB MILLS

The Friction Clutch Pinion Prevents Breakage of Cogs, etc.



Prices on Power Mills Subject to Special Discount.

Has double breakers, partition hopper, pin breaker and safety bottom. It grinds ear corn or any and all kinds of small grain separately, or any two or more mixed, for feed.

Made in four sizes—H, L, N and T.

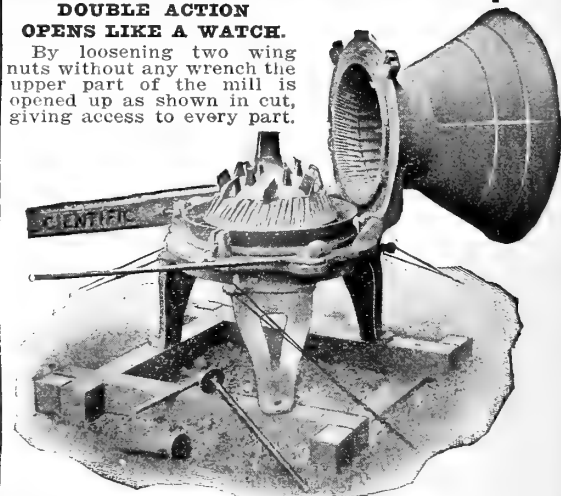
Dimensions and Details.	H No. 1 Mill.	L No. 1 Mill.	N No. 1 Mill.	T No. 1 Mill.
Length over all.....	45 inches	57 inches	64 inches	72 inches
Width over all.....	21 "	22 "	26 "	28 "
Floor to center of shaft.....	19½ "	21 "	22 "	17 "
Floor to mouth of upper discharge spout.....	21 "	21 "	23 "	16 "
Floor to mouth of lower discharge spout.....	9 "	10 "	11 "	6 "
Floor to top of hopper.....	43 "	46 "	48 "	48 "
Weight of mill, lbs.....	500	550	775	1400
Diameter of shaft.....	1½ "	1½ "	1¾ "	2 "
Driving pulley.....	8x6 "	8x6 "	10x8 "	14x10 "
Horsepower.....	6 to 8	10 to 12	12 to 15	20 to 25
Speed, r. p. m.....	800 to 1000	1000 to 1200	900 to 1000	800 to 1000
Capacity, bushel per hour on various ordinary feeds.....	10 to 20	20 to 40	20 to 50	50 to 75
Diameter grinding plates.....	10 inches	12 inches	14 inches	20 inches
Prices.....	\$55.00	\$65.00	\$70.00	\$125.00

Write For Fully Illustrated Catalogue

Scientific No. 6 New Geared Sweep Mill

DOUBLE ACTION
OPENS LIKE A WATCH.

By loosening two wing nuts without any wrench the upper part of the mill is opened up as shown in cut, giving access to every part.



Gearing consists of three gear pinions, which revolve on independent chilled studs. Mill grinds all grains, but is especially effective and rapid on ear corn, and double-action feature, which is applied to these mills, prevents cobs lodging in hopper at end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. Price of Mill, with extra plates and two baskets, \$32.00.

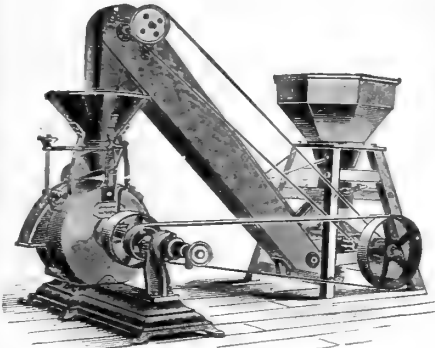
Special Discount for Cash.

Sprout Waldron Monarch French Burr Mills, Ear Corn Crushers and Combined Outfits

Monarch French Burr Mills are made of the best material, in the best mechanical workmanlike manner, and when properly installed and operated will do their work nicely. Below will be found a table stating the capacities of the different mills, power required, etc. These mills are suitable for grinding corn and cob, shell corn, oats, barley, etc. It will pay you to write for special booklet describing them more fully.

PRICES, DIMENSIONS, CAPACITY, WEIGHT, ETC., OF MONARCH BURR MILLS:

Size of Mill Inches Diameter	Size of Pulley		Revolutions per Minute	Horse Power Required.	Weight in Pounds	Capacity per hour Feed Meal	Capacity per Hour Table Meal	Floor Space Base Occupies Inches.	List Price	Our Price f. o. b. Factory	Our Price f. o. b. Baltimore.
	Diameter Inches.	Face Inches									
12	8	5	1000 to 1200	4 to 6	500	12 to 15 bu.	5 to 7 bu.	20x39	\$137.50	\$75.65	\$86.40
16	10	6	1000	6 to 10	800	20 to 25 bu.	10 to 12 bu.	22x45	180.00	99.00	112.00
20	12	8	900	10 to 15	1350	40 to 50 bu.	15 to 20 bu.	24x54	250.00	137.50	154.00
24	16	10	800	15 to 25	1800	60 to 70 bu.	20 to 25 bu.	26x57	320.00	176.00	192.00
30	20	12	750	20 to 30	2500	70 to 100 bu.	25 to 30 bu.	30x53	420.00	231.00	252.00



This illustration shows the Monarch Standard Burr Mill and Monarch Ear Corn Crusher with elevator.

Monarch Ear Corn Crushers

No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 350 pounds. Factory list, \$56.00. Retail, f. o. b. Factory, \$33.60; f. o. b. Baltimore, \$37.10.

No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ears per hour; weight, 750 pounds. Factory list, \$80.00. Retail, f. o. b. Factory, \$48.00; f. o. b. Baltimore, \$52.75.

Monarch Combined Corn and Cob Outfit

We illustrate here our Monarch Combined Outfit, for grinding either ear corn or shelled grain. The ear is first crushed in the ear corn crusher and then elevated to the hopper of the mill and is ground fine. When shelled grain is to be ground, the corn is placed directly in the hopper of the mill and the ear corn crusher and elevator need not be run. Prices of these outfits, as given below, include mill, crusher, elevator and small belts to run crusher and elevator.

PRICES MONARCH COMBINED OUTFITS.

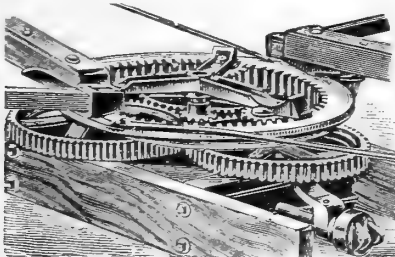
	Floor Space.	List Price.	Our Special Price, f. o. b. Factory.	f. o. b. Balto.
12-inch Mill, No. 1 Crusher,	56x46-inch.....	\$214.00	\$117.70	\$123.45
16-inch Mill, No. 1 Crusher,	90x54-inch.....	256.00	140.80	153.80
20-inch Mill, No. 2 Crusher,	104x67-inch.....	350.00	192.50	209.00

The Farmers' Favorite Chopping Mill

The burrs of this mill are made of the famous Cocalico Mill Stone. This mill is made to meet the demand for a mill that can be operated by very small engines or horse powers. It is made for grinding shelled grain only, and will not grind ear corn unless the ears have been previously crushed by crusher so that they will pass through the burrs. This mill will make a very desirable grade of chop for meal.

PRICES, DIMENSIONS, ETC., OF FARMERS' FAVORITE MILL.

Size of Mill.....	10"	12"	14"	16"	18"	20"	22"
Horse Power.....	1½ to 3	3 to 6	6 to 8	8 to 10	10 to 15	10 to 15	10 to 15
Speed, Rev. per min..	800 to 1000	800 to 1000	800 to 1000	800	700	650	600
Capacity, Bus. per hr.	5 to 15	8 to 20	10 to 25	10 to 30	10 to 30	10 to 30	10 to 30
Size Pulley.....	8"	8"	8"	10"	12"	11"	16"
Face of Pulley.....	6"	6"	6"	6"	7"	8"	8"
Price.....	\$70.00	\$75.00	\$80.00	\$90.00	\$100.00	\$120.00	\$150.00



Keystone Grinding Mills

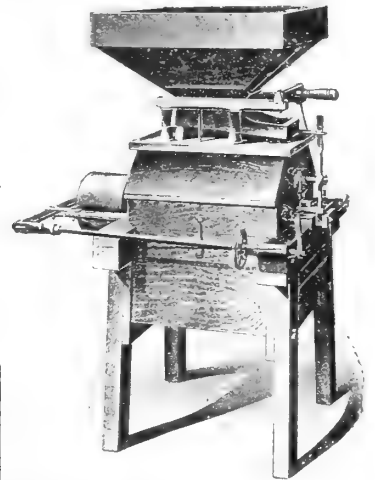
Write for special circular on **Keystone Corn and Cob Mills**. Lack of space prevents us from describing these mills.

Sweep Horse Powers

1 to 2 horse power, geared 60-1, with 1 Sweep, \$40.00.
With 2 Sweeps, \$45.00.
4-horse power, with 2 Sweeps, \$50.00.
Spur Jacks, \$12.00.

Cut Raw-Hide Belt Lacing

¾-inch, per 100 feet....\$1.75
½-inch, per 100 feet.... 2.25
¾-inch, per 100 feet....\$3.00
¾-inch, per 100 feet.... 3.75



O. D. CANVAS STITCHED BELTING

Made by the most improved machinery from cotton duck manufactured especially for the purpose.

List.	Retail.	List.	Retail.
2-in., 4-ply...20c. ft.	10c. ft.	6-in., 4-ply... 60c. ft.	24c. ft.
3-in., 4-ply...30c. ft.	15c. ft.	6-in., 6-ply... 87c. ft.	34c. ft.
4-in., 4-ply...40c. ft.	20c. ft.	8-in., 4-ply... 80c. ft.	32c. ft.
5-in., 4-ply...50c. ft.	25c. ft.	8-in., 6-ply...1.16 ft.	46 ½c. ft.

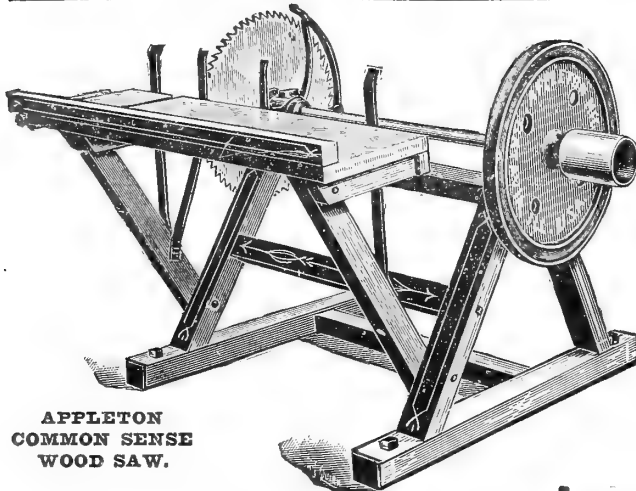
Prices of Other Widths and Plies to Order.

When Endless Belts are wanted add 3 feet extra for lapping.

RUBBER BELTING

List.	Retail.	List.	Retail.
3-in., 3-ply...30c. ft.	17c. ft.	5-in., 3-ply...50c. ft.	28c. ft.
3-in., 4-ply...37c. ft.	21c. ft.	5-in., 4-ply...61c. ft.	34c. ft.
4-in., 3-ply...40c. ft.	22c. ft.	6-in., 4-ply...72c. ft.	40c. ft.
4-in., 4-ply...50c. ft.	28c. ft.		

Larger and smaller sizes on application.



**APPLETON
COMMON SENSE
WOOD SAW.**

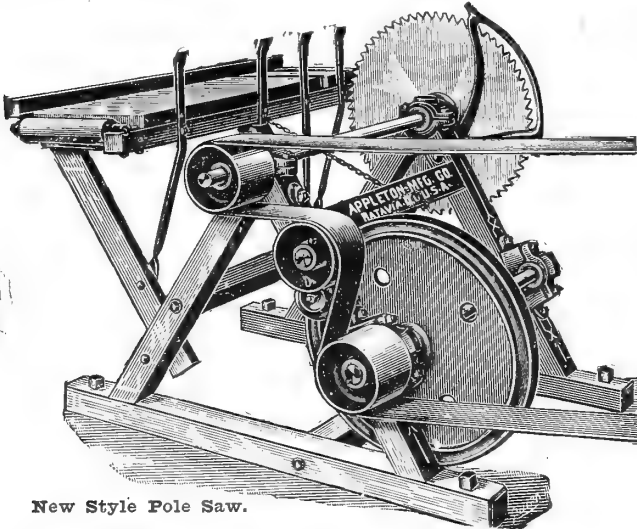
EXTENSION TABLE POLE SAWS.

As cut shows, the feed table of this frame is a little longer than regular and is arranged so that long sticks can be handled on it.

Without Saw.....	\$22.00
With 24-inch Saw.....	30.00
With 26-inch Saw.....	31.00
With 28-inch Saw.....	32.00
With 30-inch Saw.....	33.00

NEW STYLE TILTING TABLE POLE SAW.—A very popular style for sawing long logs. Requires more power to operate than either of the styles mentioned above.

Without Saw Blade.....	\$27.50
With 24-inch Saw.....	35.50
With 26-inch Saw.....	36.50
With 28-inch Saw.....	37.50
With 30-inch Saw.....	38.50



New Style Pole Saw.

The American "Up-to-Date" Shingle Machine



Reliable low price shingle machine for small operators. Requires from 4 to 8 H. P. Does not require an experienced operator. 5000 to 10000 shingles per day. 24" shingle saw, 8" edging saw. With edger, \$35.00. Without edger, \$75.00.

WOOD SAWS

We offer two lines of Saw Frames, the **Appleton** Frames, which are made of heavy hardwood, mortised and tenoned throughout and fitted with patent dust-proof self-aligning rabbitted boxes. They are celebrated for their rigidity and durability.

Gritco Saw Frames made strong with heavy mandrel, with large well rabbitted boxes.

Gritco No. 3 Saw Frame.—Similar to Common Sense Frame. Frame only \$16.50. With 24-inch Saw, \$22.50.

Gritco No. 4 Saw Frame.—Similar to Ext. Table Saw Frame. Frame only \$20.00. With 24-inch Saw, \$26.00.

Gritco No. 5 Saw Frame.—Similar to New Style Pole Saw Frame. Frame only \$22.50. With 24-inch Saw, \$28.50.

Gritco No. 6 Sliding Table Saw Frame.—Frame only \$20.00. With 24-inch Blade, \$26.00.

Rip Table Attachment for Gritco Saw Frame, \$4.00.

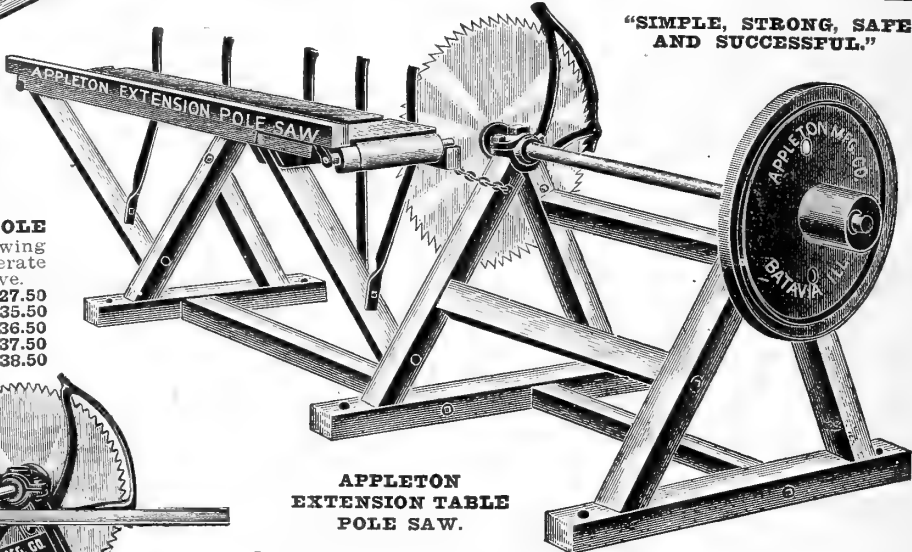
Mandrel, with Flywheel, Pulley and Boxes, \$11.00.
If 22, 26 or 28-inch Saws are wanted with Gritco Frames, add price of Saws on page 131 to price of frames only.

COMMON SENSE TILTING TABLE SAW.

The most popular style for sawing cord wood.

Without Saw Blade.....	\$19.00	With 26-inch Saw.....	\$28.00
With 22-inch Saw.....	26.00	With 28-inch Saw.....	29.00
With 24-inch Saw.....	27.00	With 30-inch Saw.....	30.00

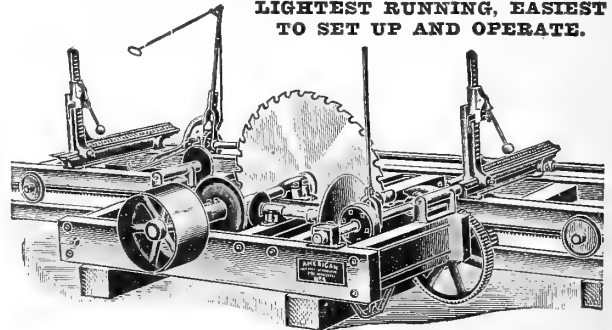
**"SIMPLE, STRONG, SAFE
AND SUCCESSFUL."**



**APPLETON
EXTENSION TABLE
POLE SAW.**

"American" Saw Mills

**LIGHTEST RUNNING, EASIEST
TO SET UP AND OPERATE.**



The American Saw Mill is especially adapted to gasoline engine power. We recommend them for use with our 9 and 12 H. P. Alamo Special Portable Engines.

OUR POPULAR FARM OUTFITS.

Outfit A.—Consisting of "American" No. 1 Standard Saw Mill, with variable friction feed with 48-in. Inserted Tooth Saw..... \$250.00

Outfit B.—Consisting of "American" No. 1 Saw Mill, as described in Outfit A; also one 12 H. P. Special Alamo Portable Gasoline Engine, complete with new cooling device, friction clutch pulley and 70 feet 6-in. canvas belting..... 795.00

Special Catalogue and Prices on Larger Sizes on Application.

Cant Hooks , No. 318B—2½ in. x 4 ft. Price.....	\$1.25
Cant Hooks , No. 318B—2½ in. x 4½ ft. Price.....	1.50
Peavies , No. 9—2½ in. x 5 ft. Price.....	1.75

OILERS

WILLIAMSON'S FUNNELKAN.

Funnel for filling. By omitting the nozzle you have a large spout for heavy oil. Funnel grips the can and prevents turning. Can is double at thread, which is a weak point in other oilers, and where nearly all break. This fully doubles its strength and life. Copper-plated. Price, \$25c.



No. 701—Copper-plated Steel Mowing Machine Oilers.

15c. each.

GRITCO, Enameled Red, 10c.



We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery. For Harvester and Other Oils, See Page 155.

CHASE ZINC OILERS.

No.	List.	Doz.	Retail.
00.	\$1.00	10c.	ea.
1.	1.25	10c.	..
1.	1.50	10c.	..
2.	2.00	15c.	..
3.	2.25	15c.	..
4.	2.75	20c.	..
5.	3.50	25c.	..
6.	4.50	30c.	..



ROUND.

No. 698—Bent or Straight Stem. Round, 10c.



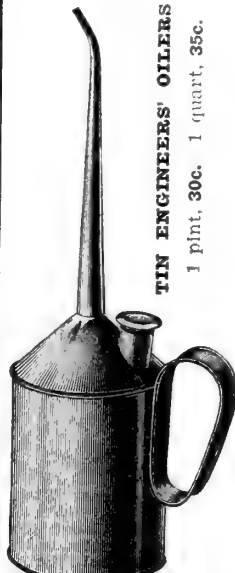
No. 601—Copper-plated Steel Mowing Machine Oiler.



Bent or Straight Stem, 20c.

TIN ENGINEERS' OILERS

1 pint, 30c. 1 quart, 35c.



ATKINS' CELEBRATED SAWS

HAND SAW.



HAND SAWS.

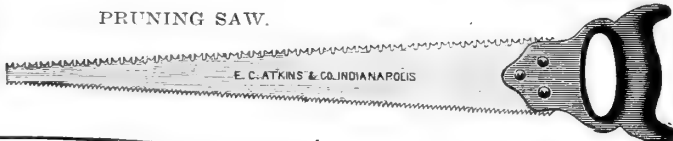
No. 38—American straight back; plate on handle. Our special price, 75c. each.

No. 59—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, \$14.00 per doz. Our special price, \$1.00 each.

No. 54—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, \$22.00 per dozen. Our special price, \$1.50 each.

No. 53—Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price, \$25.50 per dozen. Our special price, \$1.75 each. **Special Prices in Quantities.**

PRUNING SAW.



PRUNING SAWS.

No. 2 Duplex Pruning Saws. 16-inch. Our special price... 65c. 18-inch. Our special price... 75c. 20-inch. Our special price... 85c.

ONE MAN CROSS-CUT SAW, American Tooth.

3 ft., \$1.50; 3½ ft., \$1.75; 4 ft., \$2.00; 4½ ft., \$2.25. **Special Prices in Quantities.**

Gritco Cross-Cut Saws, Narrow American.



NARROW AMERICAN.

5 ft.—Our special price... \$1.30 6 ft.—Our special price... \$1.60
5½ ft.—Our special price... 1.40
Price of Cross-Cut Saws is Without Handle. Climax Handles, 15c. per Pair.



GRITCO CROSS-CUT SAWS, WIDE TOOTH, AMERICAN.

Wide American Tooth, Silver Steel, 5, 5½ and 6 Feet. Gauge, 14x16.			
Factory list price, 5 ft.	\$2.30	Our Special Price	\$2.00
Factory list price, 5½ ft.	2.54	Our Special Price	2.25
Factory list price, 6 ft.	2.76	Our Special Price	2.50
Tuttle Tooth, Cast Steel. Gauge, 14x16.			
Factory list price, 5 ft.	\$2.30	Our Special Price	\$2.00
Factory list price, 5½ ft.	2.54	Our Special Price	2.25
Factory list price, 6 ft.	2.76	Our Special Price	2.50

Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.



WOOD SAWS

No. 617—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2¼ inches wide. Our special price, 60c.

No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ inches wide. Our special price, 75c.

No. 823—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted, 2¼ inches wide. Our special price, \$1.00.

Wood Saw Bucks, 35c.



GRITCO CIRCULAR SAWS

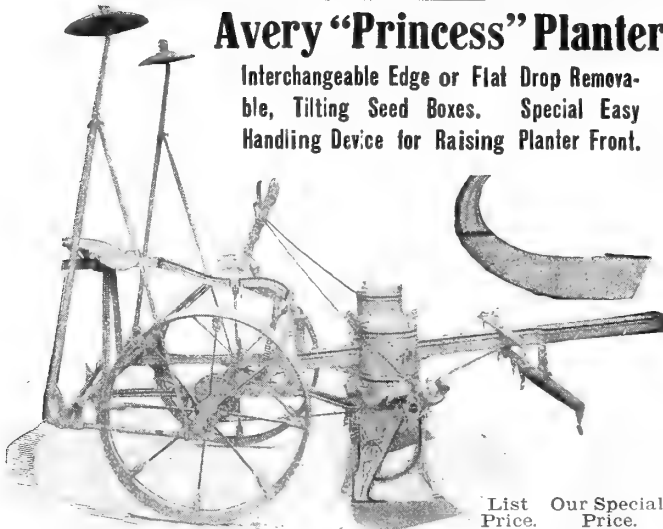
These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequalled. The prices given are for saws sharpened and set. Unless otherwise ordered we send blades with 1½-inch hole.

	List Price.	Retail Price.
22-inch, No. 12 gauge	\$11.00	\$5.00
24-inch, No. 11 gauge	13.00	6.00
26-inch, No. 11 gauge	15.00	6.75
28-inch, No. 10 gauge	17.00	7.75
30-inch, No. 10 gauge	19.00	8.55

Saw Mandrels.—Write for Special Circular of Sizes and Prices.

Avery "Princess" Planter

Interchangeable Edge or Flat Drop Removable, Tilting Seed Boxes. Special Easy Handling Device for Raising Planter Front.



	List Price.	Our Special Price.
Avery Princess Planter with Check Rowers and 80 Rods Wire.....	\$66.00	\$40.00
Same, less Check Rowers.....	58.00	35.00
Add for Fertilizer Attachment.....	20.00	12.00
Add for Double Row Attachment.....	2.00	1.00
Same with both Edge and Flat Drop Plates.....	68.00	42.50
Corn Queen Flat Drop Planter with Check Rowers and 80 Rods Wire.....	\$62.00	\$38.00
Same, less Check Rowers.....	52.00	33.00
Add for Fertilizer Attachment.....	20.00	12.00

In ordering specify whether Round or Pointed Runners, open or concave wheels, edge or flat-drop plates.

MYSTIC JR. CULTIVATOR

	List Price.	Our Special Price.
No. 41X—Steel Beam, 4 Shovels, Pin Break.....	\$27.00	\$17.00
No. 41KA—Steel Beam, 6 Shovels, Pin Break.....	29.00	17.50
No. 41XX—Steel Beam, 4 Shovels, Spring.....	30.00	19.00
No. 41XXA—Steel Beam, 6 Shovels, Spring.....	34.00	21.75
Add for Balance Frame Axles—List, \$1.00; Special Price, 75c.		

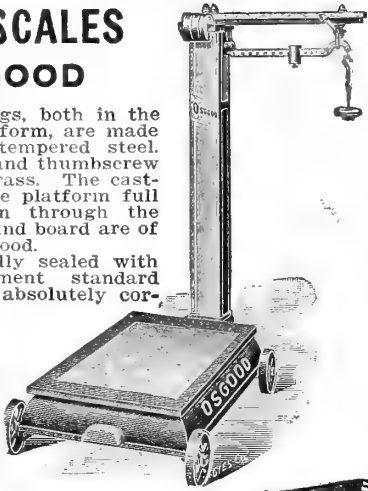
PORTABLE SCALES THE OSGOOD

The pivots and bearings, both in the beam and under the platform, are made of strong, hard, finely-tempered steel. The beam, sliding poise and thumbscrew are of highly polished brass. The castings are extra heavy, the platform full size, and the axles run through the frame. The pillar, caps and board are of the best seasoned hardwood.

Every Scale is carefully sealed with United States Government standard weights and guaranteed absolutely correct.

Size Platform.	
600-lb.....	16x25
800-lb.....	17x26
1000-lb.....	17x26

	List Price.	Retail Price.
600 lbs..	\$33.00	\$18.25
800 lbs..	38.00	21.00
1000 lbs..	43.00	23.75



THE DEFIANCE

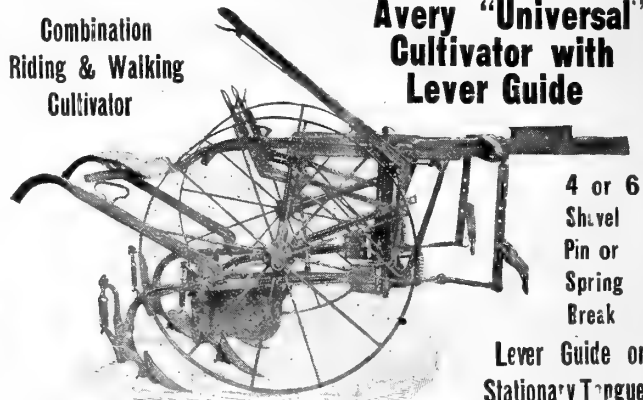
They are carefully adjusted by competent workmen, and are guaranteed U. S. Standard Scales. The material throughout is of the best quality, and all pivots are of steel. The brass work is highly polished; the iron work is japanned in black, and the woodwork is finished in its natural color, making a very attractive combination.

Special Discount for Cash.

600-lb.—Size of Platform,	16x23.	\$11.00.
800-lb.—Size of Platform,	16x25.	\$12.00.
1000-lb.—Size of Platform,	17x26.	\$13.50.



Combination Riding & Walking Cultivator

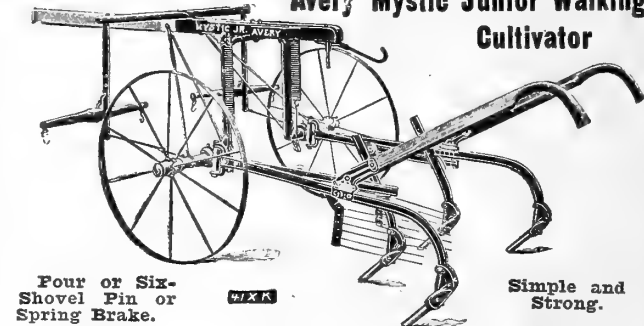


4 or 6
Shovel
Pin or
Spring
Break

Lever Guide or
Stationary Tongue

	List.	Our Price.
No. 105X—Steel Beam, 4 Shovels, Pin Break.....	\$47.00	\$29.00
No. 106X—Steel Beam, 6 Shovels, Pin Break.....	49.00	30.00
No. 105XX—Steel Beam, 4 Shovels, Spring.....	50.00	32.00
No. 106XX—Steel Beam, 6 Shovels, Spring.....	54.00	33.00

Avery Mystic Junior Walking Cultivator



Four or Six-
Shovel Pin or
Spring Brake.

Simple and
Strong.

OSGOOD'S WAGON SCALES

THE HERCULES (Trussed Steel Levers).

THE CHALLENGE (Wood Levers). Built on direct leverage plan. The load at any point on the scale platform will weigh the same. Fitted with patent protected steel-lined cushioned bearings, which are protected from dirt and water. Knife edges of best tool steel; beams and poises best quality red brass, polished. Tripled beam requires no loose weights. Platform, 8x14 feet.



THE HERCULES STEEL LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
250	3 tons.	\$71.00	\$43.00	\$80.00	\$43.00
260	4 tons.	78.00	47.00	85.00	51.00
262	5 tons.	83.00	50.00	90.00	54.00

THE CHALLENGE WOOD LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
75	3 tons.	\$54.00	\$32.50	\$60.00	\$36.00
80	4 tons.	60.00	36.00	66.00	40.00
85	5 tons.	66.00	40.00	72.00	43.50

Prices do not include wood frame or platform. On Challenge Scale customer furnishes wood levers. We do not furnish extension levers with any of the above scales.

PITLESS SCALES

	Double Beam.		Triple Beam.	
	List.	Retail.	List.	Retail.
No. 606—Open Steel Frame—				
Capacity 5 tons.....	\$125.00	\$75.00	\$130.00	\$78.00
No. 622—Wood Frame—				
Capacity 5 tons.....	100.00	60.00	105.00	63.00

Customer to furnish all wood work on No. 622 Scale.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

THE NEW HOLLAND STONE CRUSHER

Can Be Mounted Complete with 4 H. P. Engine on Same Truck



THE ONLY OUT-FIT OF ITS KIND.

Designed to meet the demand for a good practical low-priced Stone Crusher that can be operated with a 3 to 5 H. P. Gasoline Engine. With this machine farmers can crush up piles of stone, picked from the field, and this crushed stone is valuable for macadamizing lanes and walks and for concrete work. On account of its light weight it is easily moved. The weight of this Crusher is 2000 pounds, the opening of the jaws is 6 in. x 9 in., and the capacity three or four tons per hour with the jaws closed to two inches. Size of pulley 20x6 in. The speed may vary from 150 to 250 revolutions per minute.

PRICES OF NEW HOLLAND STONE CRUSHERS

Crusher with Shaker on sills.....	\$175.00
Crusher with Shaker on truck.....	197.00
Crusher on long truck so that engine can be mounted on same truck.....	200.00
Crusher with 4 H. P. Engine mounted on truck, with 4" 4-ply rubber belt and with curtains around engine to keep off dust..	400.00

Prices of Elevators quoted on application.

MONARCH SEMI-STEEL STUMP PULLERS

The Old Reliable Monarch Stump Pullers are the strongest and most convenient Stump Pulling Machines made. The grooved drum, the long anchor hook, the double eccentric lever and the improved style of ratchet pawl are distinctive features of these machines.

	List Price.	Our Price.
No. 3—8 ft. $\frac{3}{4}$ " Anchor Cable. 50 ft. $\frac{3}{4}$ " Pull Cable.....	\$55.00	\$35.00
No. 3—8 ft. $\frac{3}{4}$ " Anchor Cable. 100 ft. $\frac{3}{4}$ " Pull Cable.....	63.50	40.00
No. 3—8 ft. $\frac{3}{4}$ " Anchor Cable. 150 ft. $\frac{3}{4}$ " Pull Cable.....	72.00	45.00
No. 4—10 ft. $\frac{3}{4}$ " Anchor Cable. 75 ft. $\frac{3}{4}$ " Pull Cable.....	98.00	70.00
No. 4—10 ft. $\frac{3}{4}$ " Anchor Cable. 100 ft. $\frac{3}{4}$ " Pull Cable.....	113.00	80.00
No. 4—10 ft. $\frac{3}{4}$ " Anchor Cable. 150 ft. $\frac{3}{4}$ " Pull Cable.....	143.00	100.00
No. 5—12 ft. $\frac{7}{8}$ " Anchor Cable. 100 ft. $\frac{7}{8}$ " Pull Cable.....	135.00	96.25
No. 5—12 ft. $\frac{7}{8}$ " Anchor Cable. 150 ft. $\frac{7}{8}$ " Pull Cable.....	173.00	122.50
No. 6—12 ft. 1" Anchor Cable. 100 ft. 1" Pull Cable.....	154.00	109.50
No. 6—12 ft. 1" Anchor Cable. 150 ft. 1" Pull Cable.....	199.00	142.50

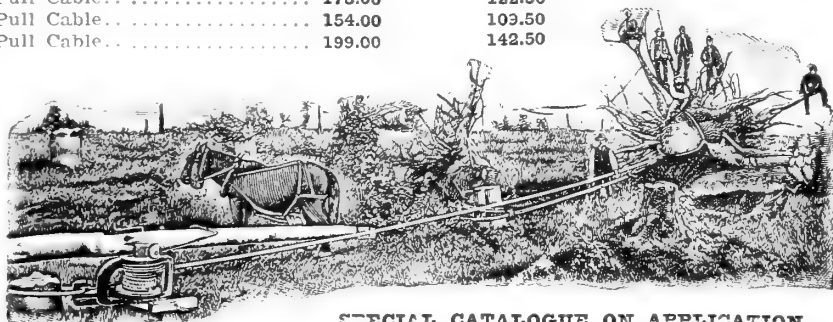
No. 3 Stump Pullers have special steel cable, while Nos. 4, 5 and 6 have Hercules Red Strand Pull Cable.

PRICES OF DOUBLE POWER PULLEYS.

No. 3—With 10 ft. 1" cable with hook on end. List, \$18.00; Our Price, \$13.50.
 No. 4—With 12 ft. 1" cable with hook on end. List, \$26.00; Our Price, \$18.00.
 No. 5—With 15 ft. 1 $\frac{1}{4}$ " cable with hook on end. List, \$30.00; Our Price, \$21.00.
 No. 6—With 15 ft. 1 $\frac{1}{4}$ " cable with hook on end. List, \$35.00; Our Price, \$24.50.

PRICES OF BULL DOG STUMP HOOKS.

No. 4—For No. 3 and No. 4 machines. List, \$20.00; Our Price, \$14.00.
 No. 7—For No. 5, No. 6 and No. 7 machines. List, \$25.00; Our Price, \$17.50.



SPECIAL CATALOGUE ON APPLICATION.

PORTABLE FORGES

Fig. No. 907 (cut below).—Height, 30"; hearth, 29 $\frac{1}{2}$ x46"; fan, 15" diameter. List, \$50.00; Our Special Price, \$22.50. With Water Tank, List, \$55.00; Our Special Price, \$27.50.

Fig. 915—As illustrated and described with outfit of Blacksmith's Tools. List, \$24.00; Our Special Price, \$10.00.

Fig. 930—Similar to Fig. 915, but with 18" hearth (not separate) and 8" fan. List, \$14.00; Our Special Price, \$5.75.

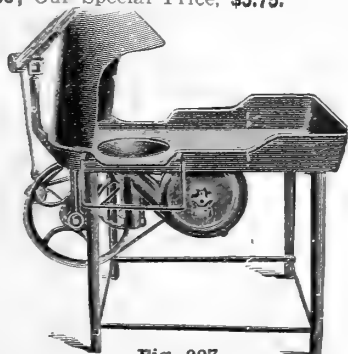
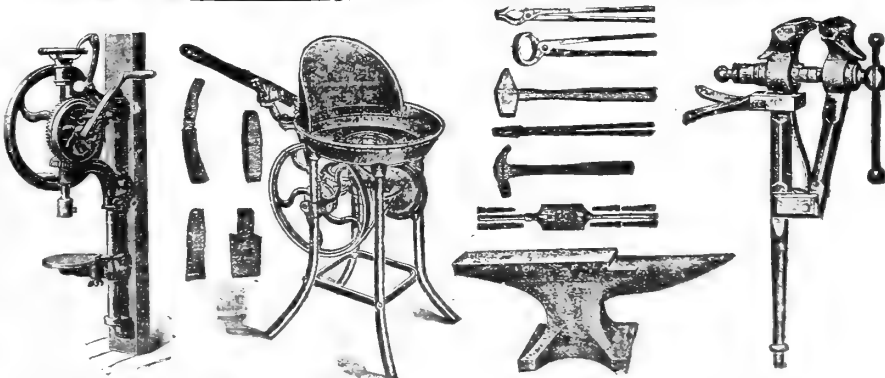


Fig. 907.

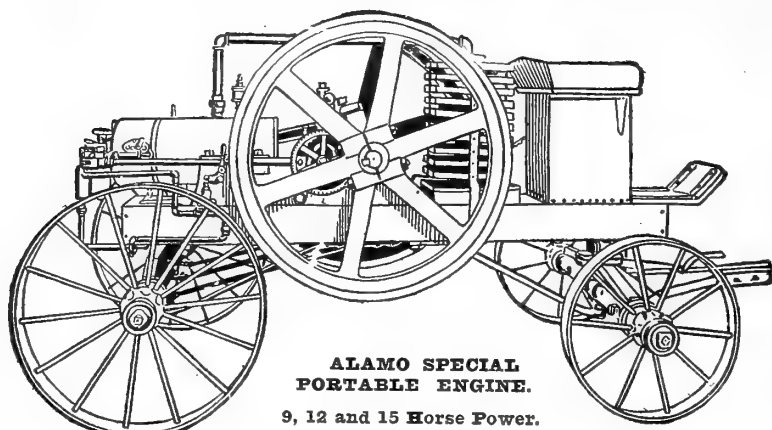


G. & T. CO.'S FARMERS' HANDY OUTFIT OF BLACKSMITH'S TOOLS

Consists of the following: 1 160-LB. IMPORTED ENGLISH ANVIL, 1 35-LB. WROUGHT IRON SOLID BOX BLACKSMITH'S VISE, 1 (Fig. 731) 80-LB. DOUBLE GEARED SELF-FEED HAND POST DRILL, with 8 drills, $\frac{1}{4}$ to $\frac{3}{4}$ "; 1 (Fig. 915) PORTABLE FORGE, 30" high, 22" hearth, 9" fan. Fireplace separate from hearth, which saves breakage in expansion and shrinkage, heats 2" diameter iron to welding heat. Has ball-bearing shaft, one set of stocks and dies to cut $\frac{3}{8}$ to 3-16", 1 $\frac{3}{4}$ " hot cutter, 1 $\frac{3}{4}$ " cold cutter, one hardie, 1-2-lb. blacksmith's hand hammer, 1-20" straight lip tongs, 1-20" bolt tongs, 1-14" pincers and 1-1XL Farrier's Knife.

Special Price on complete outfit as described, \$40.00.

Outfit as above, but with 85-lb. Anvil and (Fig. 930) Forge, \$34.00.



**ALAMO SPECIAL
PORTABLE ENGINE.**

9, 12 and 15 Horse Power.

ALAMO SPECIAL PORTABLE ENGINES use less gasoline than other makes. Have convenient early and late spark device, making them easy to start. Speed can be changed while engine is running. They have high grade friction clutch pulley and a convenient circulating water cooling device. Write for special circular.

ALAMO SEMI-PORTABLE ENGINE

This is the standard 5 and 7 H. P. Engine mounted on skids. A very convenient self-contained outfit. Prices on application.

Alamo Engines are particularly adapted to manufacturing plants, pumping plants, electric lighting outfits, etc. Send for Special Catalogue.

ALAMO VICTOR VERTICAL ENGINE

A high-grade vertical engine; made

by the makers of the famous Alamo Engines. The same high quality of design, material and workmanship that has always characterized Alamo Engines is shown.

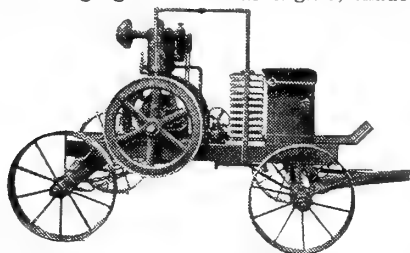
Three H. P. Victor Engine on skids, with large cooling tank, **\$140.00**; with improved pan cooling device, **\$155.00**.

Six H. P. Victor Engine on skids, with improved pan cooling device, **\$225.00**.

Victor Portable Engines

Three H. P. Victor Engine, with pan cooler on hand truck, **\$175.00**.

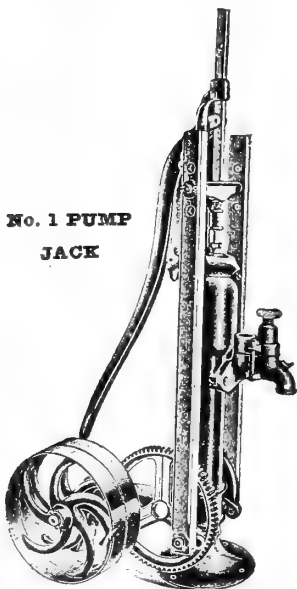
Six H. P. Victor Portable Engine, with pan cooler, **\$275.00**.



6-HORSE PORTABLE ENGINE.

PORTABLE WOOD SAWING OUTFITS

One of our most popular wood sawing outfits. Consists of our three H. P. Victor Vertical Engine, mounted on Appleton Special Saw and Engine Mount, with Appleton Steel Frame Saw Attachment and 26" Saw. Our special price on this outfit mounted complete, with belt, battery box and seat and doubletrees and neckyoke, is **\$250.00**.



**No. 1 PUMP
JACK**

No. 1 PUMP JACK

For use with gasoline engines. Has 13-inch pulleys and is back geared four to one. Price, **\$10.00**.

No. 2 PUMP JACK

Back geared twelve to one with 13-in. pulleys. Popular for electric motors. Similar to the No. 1. Price, **\$14.00**.

MYERS PUMP JACK

Back geared six to one with 12-in. pulleys. List, **\$16.00**; Retail Price, **\$12.00**.

ALAMO GASOLINE ENGINES

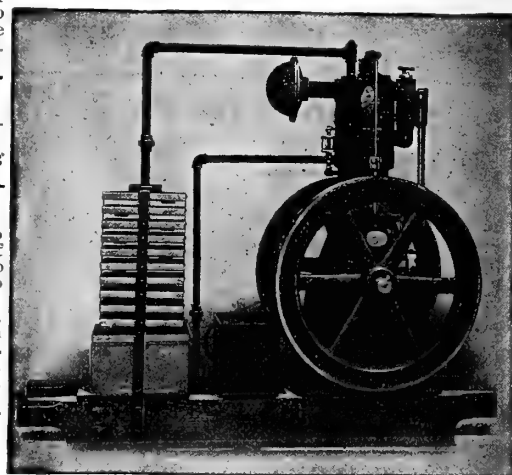
SIZES: 3 H. P. TO 100 H. P.

Remarkable for Their Simplicity, Economical Use of Gasoline, Convenience and Great Power.

In their construction, Alamo Engines embody the most advanced, tested and approved ideas. Alamo Engines are built of the best materials, in modern shops and by skilled mechanics. They will use less gasoline than any other engine on the market. Will develop considerably more than their rated horsepower and can be relied upon for heavy continuous service without constant adjustment. We would be pleased to send a special Catalogue of Alamo Engines to any one interested. This Catalogue describes the Alamo Line fully and is a convincing argument on the excellence of these engines.

ALAMO SPECIAL PORTABLE ENGINE

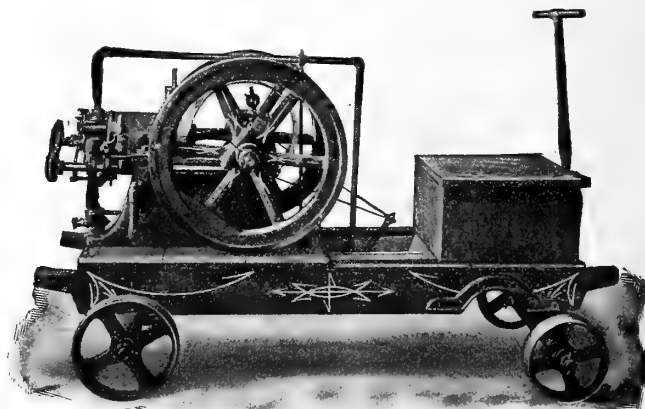
A style of which we are justly proud. Designed especially for portable purposes. It is the embodiment of all the essential features of a first class portable gasoline engine. This is the most popular and most practical farm gasoline engine made. High in grade, moderate in price. Prices on application.



3 H. P. VICTOR ENGINE WITH PAN COOLER.

4 H. P. DOMESTIC GASOLINE ENGINE

The cut below shows the Domestic 4 H. P. Gasoline Engine on four-wheel truck. It can be furnished with hopper jacket on skids as shown on page 135, or with circulating pump on skids. This is a big, strong 4 H. P. Engine, weighing 1400 lbs., and is of high grade construction throughout. It is the most attractive and is the most desirable outfit for ordinary farm requirements. Special circular and prices on application.



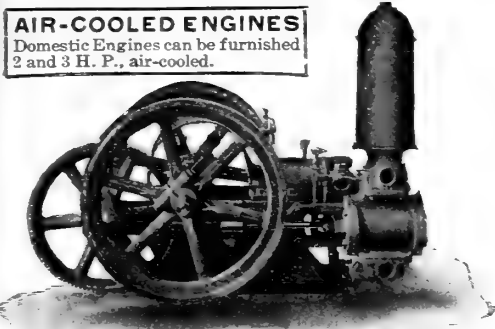
REGULAR WATER JACKET ENGINES.

Water Tank Under Engine, Self-Draining Pump—On Skids or on Hand Truck, as Desired.

Domestic Pumping Engines

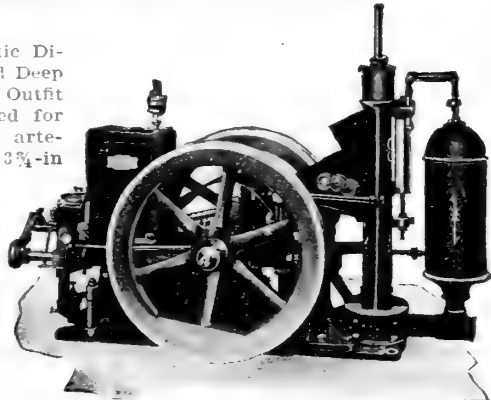
These engines are very practical and are very convenient. Pumps can be readily thrown out of gear so that the engines can be used for general power purposes.

AIR-COOLED ENGINES Domestic Engines can be furnished 2 and 3 H. P., air-cooled.



DIRECT CONNECTED HORIZONTAL PUMPING ENGINE

The Domestic Direct Connected Deep Well Pumping Outfit specially suited for deep dug and artesian wells. 3¼-in plunger can be withdrawn through base. Cog gear handle attachment if desired. Write for circular and prices.



DIRECT CONNECTED DEEP WELL PUMPING ENGINE



DOMESTIC HOPPER ENGINE

The Domestic Hopper Cooled Engine illustrated herewith can be furnished from 1½ to 12 H. P. The style of skids used on larger sizes is slightly different. From 2 H. P. up, these engines can be furnished with underneath water tank and self-draining circulating pump. Write for circular and prices.

Domestic Portable Engines

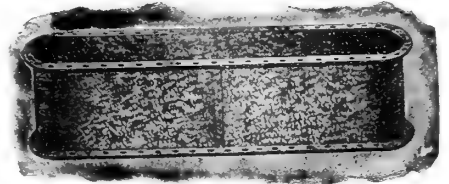
From 6 to 12 H. P.



With brake, friction clutch pulley and underneath cooling tank with self-draining circulating pump.

GALVANIZED STEEL STORAGE TANKS

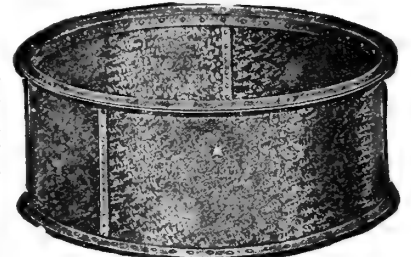
Every tank carefully inspected before leaving factory to insure tank being water tight. The dimensions of all tanks are outside measurement. 31½ gallons to the barrel.



ROUND END GALVANIZED TANKS.

No.	Width.	Height.	Lgth.	Cap'y Bbls.	Weight.	List Price.	Retail Price.
101	2 ft.	4 ft.	3 ft.	33½	65 lbs.	\$7.00	\$5.60
102	2 ft.	5 ft.	4 ft.	43½	82 lbs.	8.70	6.95
103A	2½ ft.	6 ft.	5 ft.	7	105 lbs.	11.00	8.80
104	2½ ft.	7 ft.	6 ft.	6½	106 lbs.	11.25	9.00
105	2½ ft.	8 ft.	7 ft.	7½	123 lbs.	12.25	9.80
108	3 ft.	8 ft.	8 ft.	9½	131 lbs.	13.00	10.40
109	3½ ft.	10 ft.	10 ft.	12	165 lbs.	16.80	13.44
110	3½ ft.	8 ft.	12	159 lbs.	15.00	12.00	
111	3 ft.	8 ft.	11½	145 lbs.	14.00	11.20	
112	3 ft.	10 ft.	14	175 lbs.	17.50	14.00	

Prices on larger sizes and special tanks quoted on application. Our galvanized tanks are made regularly of No. 20 galvanized steel. Extra heavy tanks made of No. 18 galvanized steel at an advance of 20 per cent. over prices quoted.

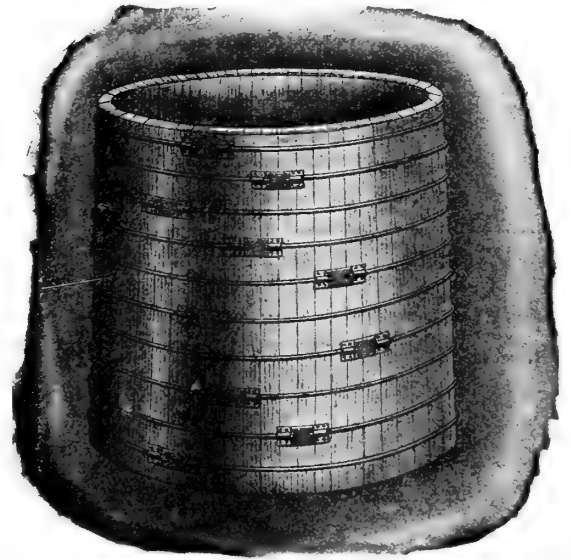


ROUND GALVANIZED TANKS.

No.	Diam.	Height.	Cap'y Bbls.	Weight.	List Price.	Retail Price.
1	3 ft.	2 ft.	3½	71 lbs.	\$8.00	\$6.40
2	4 ft.	2 ft.	6	91 lbs.	9.50	7.60
3	4 ft.	2½ ft.	7	100 lbs.	10.75	3.60
4	4 ft.	3 ft.	9	107 lbs.	12.75	10.20
5	4 ft.	4 ft.	12	127 lbs.	16.00	12.80

Larger sizes furnished on application.

Cypress Storage Tanks

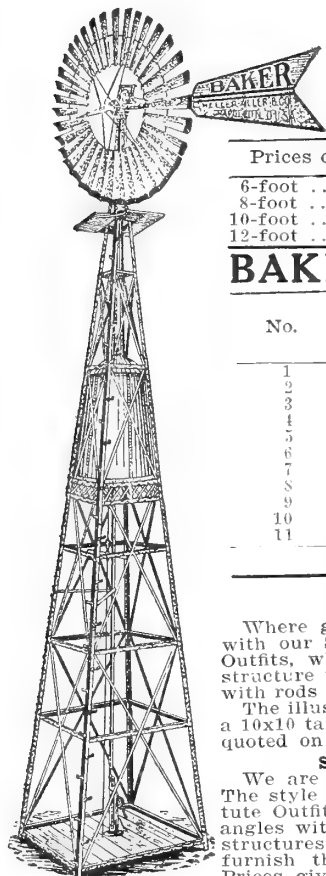


Diam.	Stave.	Capacity.	1½-in. Cypress List.	2-in. Cypress List.	1½-in. Cypress Retail.	2-in. Cypress Retail.
5 ft.	2 ft.	267 gals.	\$19.80	\$13.25	\$24.90	\$16.00
5 ft.	4 ft.	461 gals.	25.80	17.25	32.50	21.75
5 ft.	5 ft.	591 gals.	28.90	19.50	37.00	25.00
6 ft.	4 ft.	688 gals.	31.80	21.50	41.00	27.50
6 ft.	6 ft.	1072 gals.	42.00	28.00	55.00	37.00
7 ft.	7 ft.	1738 gals.	58.00	39.00	74.00	50.00
8 ft.	6 ft.	1940 gals.	61.00	41.00	78.00	52.50
8 ft.	8 ft.	2639 gals.	76.00	51.00	97.00	65.00

Prices on other sizes quoted on application.

BAKER WINDMILLS AND TOWERS

Baker Windmills and Towers fairly bristle with good points. Lack of space keeps us from describing them here, but we will be pleased to mail a descriptive catalogue to any one contemplating the purchase of a windmill. If you are going to buy a windmill, be sure to buy THE BAKER.



Prices of Baker Windmills.

6-foot	\$37.00
8-foot	44.00
10-foot	59.40
12-foot	100.00

Prices of Baker Four-Post Towers.

Height:—	30 ft.	40 ft.	50 ft.	60 ft.	70 ft.
For 6-ft. Mill.....	\$41.50	\$60.00	\$77.75		
For 8-ft. Mill.....	41.50	60.00	77.75		
For 10-ft. Mill.....	46.00	66.00	88.00	\$115.00	\$151.00
For 12-ft. Mill.....	59.00	83.00	114.00	151.00	197.00

BAKER SUBURBAN OUTFIT

Prices do not include Mill. Add to list for 8-ft. Mill, \$44.00; for 10-ft. Mill, \$59.40.

No.	Height of Tower.	Elevation Bottom of Tank.	Capacity of Tank, Bbls.	List Price with 2-in. Cypress Tank.	List Price with 1½-in. Pine or 1½-in. Cypress Tank.	List Price with Galvanized Steel Tank.
1	30 ft.	7 ft. 8 in.	16	\$115.00	\$108.00	\$100.00
2	35 ft.	12 ft. 1 in.	16	120.00	112.00	105.00
3	35 ft.	14 ft.	11	115.00	107.00	100.00
4	40 ft.	19 ft. 6 in.	16	140.00	132.00	120.00
5	50 ft.	19 ft. 6 in.	38	180.00	172.00	165.00
6	50 ft.	26 ft.	20	165.00	158.00	150.00
7	50 ft.	19 ft. 6 in.	32	175.00	168.00	160.00
8	60 ft.	30 ft.	27	205.00	198.00	190.00
9	60 ft.	30 ft.	32	210.00	200.00	195.00
10	60 ft.	19 ft. ½ in.	52	230.00	215.00	205.00
11	69 ft.	19 ft. ½ in.	64	240.00	230.00	220.00

LIBERAL DISCOUNT ON WINDMILLS, TOWERS AND SUBURBAN OUTFITS.

INSTITUTE OUTFITS

Where greater storage or higher pressure than can be obtained with our Suburban Outfits is wanted, we recommend the Institute Outfits, which consists of tank erected on our regular steel sub-structure with windmill and tower anchored to the bottom of tank with rods through to the heavy caps of platform.

The illustration of Institute Outfit shows the 40-foot sub-structure, a 10x10 tank and windmill on 25-foot tower. Prices on these outfits quoted on application.

SUB-STRUCTURES FOR ELEVATING TANKS.

We are offering a good line of angle steel tank sub-structures. The style of these structures is shown by the illustration of Institute Outfit. Prices of these structures as given below include cap angles with foundation rods and plates. We recommend that these structures be erected on concrete or masonry piers, although we can furnish the smaller sizes with anchor plates and anchor posts. Prices given are for galvanized structures, and painted structures can be furnished at a lower price.

Vertical Height.	For 6x6 ft. Tank.		For 7x7 ft. Tank.		For 8x8 ft. Tank.	
	Weight.	Price.	Weight.	Price.	Weight.	Price.
12 feet.....	540	\$47.00	630	\$54.00	800	\$68.00
15 feet.....	600	52.00	700	60.00	880	79.00
20 feet.....	730	67.00	930	79.00	1160	98.00
25 feet.....	950	81.00	1120	94.00	1370	115.00
30 feet.....	1140	98.00	1370	115.00	1660	141.00
34 feet.....	1330	113.00	1560	130.00	1860	154.00
39 feet.....	1530	131.00	1820	151.00	2150	179.00
Steel Beams for under tank..	190	16.00	260	22.00	540	44.00
18" Walkway and Hand Rail.	500	49.00	530	52.00	640	62.00
Steel outside Tank Ladder..	50	5.00	50	5.00	60	5.80
Cypress inside Tank Ladder..	50	2.00	60	2.00	70	2.70

Liberal Discount on Sub-structures.

Wood Tanks for use with these structures listed on page 135.

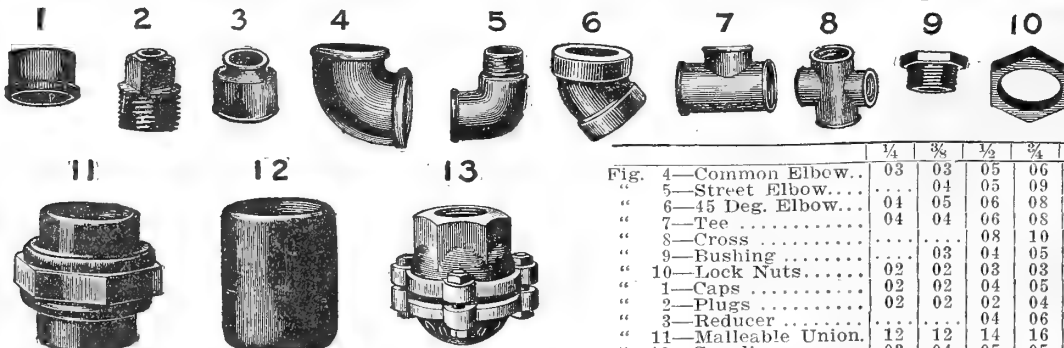
Larger sizes on application.



Fig. 241. GALVANIZED NIPPLES

Size, inches.....	¼	½	¾	1	1½	2	2½	3
Close or Short. Price, each.	4	4	4	4	5	6	7	10
Long, 2½ to 4 in. Price, ea.	4	5	5	5	6	8	10	12

GALVANIZED MALLEABLE PIPE FITTINGS



	¼	¾	½	¾	1	1½	1½	2	2½
Fig. 4—Common Elbow..	03	03	05	06	10	12	18	27	40
5—Street Elbow.....	04	05	09	11	17	24	39	57	84
6—45 Deg. Elbow.....	04	05	06	08	12	15	26	41	60
7—Tee	04	04	06	08	12	15	21	30	44
8—Cross	04	04	06	08	10	18	24	36	60
9—Bushings	03	03	04	05	06	07	09	13	20
10—Lock Nuts.....	02	02	03	03	04	05	07	10	18
1—Caps	02	02	04	05	07	10	15	20	28
2—Plugs	02	02	02	04	05	06	07	10	15
3—Reducer	04	06	10	14	18	30	42	60	84
11—Malleable Union.	12	12	14	16	20	28	36	46	94
12—Coupling	03	04	05	05	08	10	14	16	22
13—Foot Valve.....					40	50	60	75	

G. & T. Invincible Pneumatic Water Supply Outfits

The Pneumatic Tank is rapidly taking the place of the elevated tank for the storage of water in suburban and country homes. The Pneumatic Tank possesses many advantages, such as freedom from freezing, the fire protection afforded, etc., which are more fully explained in our special circular which we will mail free to any one interested. We have these outfits ranging in price from \$47.50 up. Or we can supply the tanks only, to be used in connection with the pump our customer may already have. These tanks can be used in connection with hand pumps, windmills, gasoline engines or electric motors. We will be pleased to send full information and make special estimate to any one considering the installation of a water supply outfit. Do not fail to investigate this system

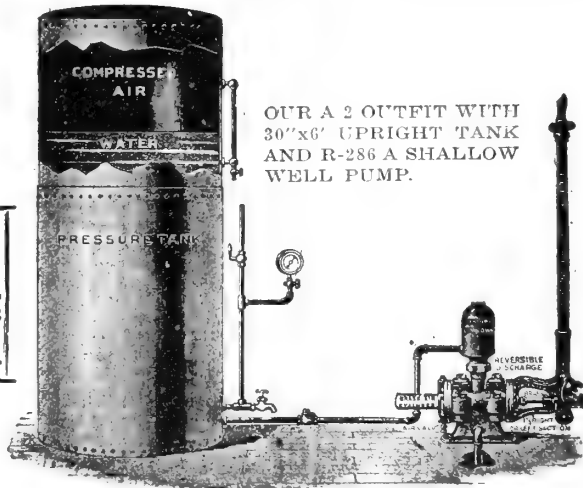
LIST OF INVINCIBLE TANKS.

Diam. in In.	Length in Ft.	Weight	Cap'y. in Gals.	List Price.	Our Price.
24	5	425	120	\$55.00	\$33.00
24	6	445	145	58.00	34.80
24	7	510	170	63.00	37.80
24	8	560	195	68.00	40.80
24	10	675	245	74.00	44.40
30	5	495	180	64.00	38.40
30	6	560	220	70.00	42.00
30	7	625	255	75.00	45.00
30	8	700	295	88.00	52.80
30	10	870	365	102.00	61.20
30	12	990	440	115.00	69.00
36	5	675	265	85.00	51.00
36	6	750	315	92.00	55.20
36	7	825	365	102.00	61.20
36	8	900	420	112.00	67.20
36	10	1050	525	131.00	78.60
36	12	1200	630	141.00	84.60
36	14	1400	735	148.00	88.80
42	8	1150	575	135.00	81.00
42	10	1650	720	150.00	90.00
42	12	1900	865	196.00	117.60
42	14	2200	1000	219.00	131.40
42	16	2400	1150	236.00	141.60
48	12	2320	1130	250.00	150.00
48	14	2610	1300	274.00	164.40
48	16	2900	1500	304.00	182.40
48	18	3600	1700	351.00	210.60
48	20	3950	1880	393.00	235.80
48	24	4650	2260	437.00	262.20

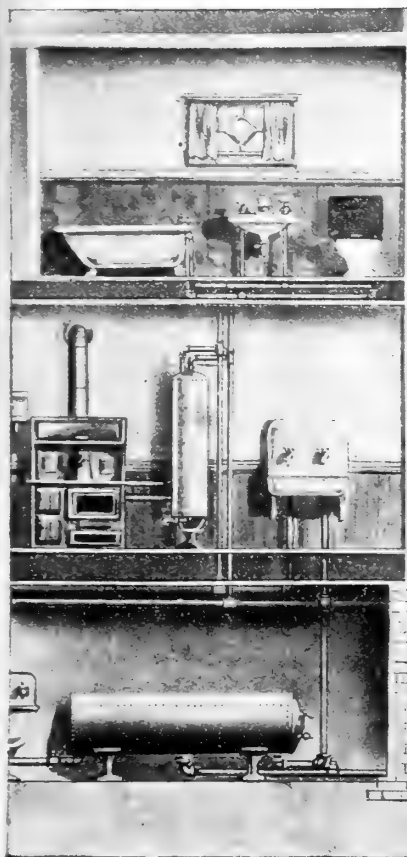
Write for Information Blank, which will enable you to state your requirements clearly.

The heads of the above tank 36"x14", and smaller are 5-16" thick and shells 3-16" thick. Tanks from 42"x8" to 48"x24" have heads 3/4" thick and shells 1/4" thick. Manheads \$10.00 extra, net. Water Gauge, extra list, \$2.50.. Our price, \$1.50. Pressure Gauge, extra list, \$3.00. Our price, \$1.80. All Tanks tested to 125 pounds air pressure. Larger sizes on application.

THE WORKING CAPACITY OF A TANK IS ABOUT TWO-THIRDS OF ITS TOTAL CAPACITY.



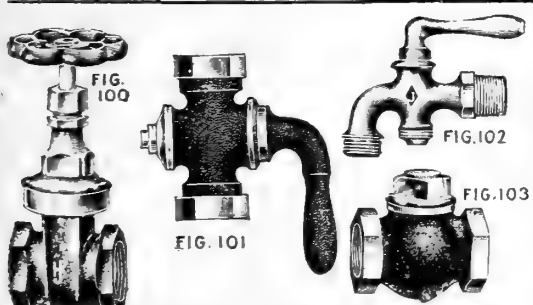
OUR A 2 OUTFIT WITH 30"x6" UPRIGHT TANK AND R-286 A SHALLOW WELL PUMP.



Invincible Horizontal Tank and Gould's Deep Well Pump.

Price List of Invincible Hand Outfits

No. A1—For shallow wells and cisterns where level water is not more than 20 vertical feet below pump. Price includes pump, valves and fittings shown in cut, but does not include suction pipe. 24"x6" tank, total capacity, 145 gallons; working capacity, 90 gallons. List Price, \$65.00; Our Special Price, \$52.50.
 No. A2—Same Outfit with 30"x6" Tank. List Price, \$75.00; Our Special Price, \$62.50.
 No. A3—Same Outfit with 36"x6" Tank. List Price, \$90.00; Our Special Price, \$72.50.
 No. B1—The Tank used with this Outfit is set horizontal and the same shallow well pump and fittings are used as with the No. A1 Outfit with 30"x8" Tank. List Price, \$90.00; Our Special Price, \$72.50.
 No. B2—Same as No. B1, but with 30"x10" Tank. List Price, \$100.00; Our Special Price, \$80.00.
 No. B3—Same as No. B1, but with 36"x8" Tank. List Price, \$105.00; Our Special Price, \$94.00.



BRASS VALVES, ETC.

	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Globe Valves.....	\$0.50	\$0.70	\$0.90	\$1.10	\$1.25	\$1.75	\$2.75
Gate Valves (Fig. 100).....	.50	.60	.75	1.00	1.25	1.75	2.75
Angle Valves.....	.50	.70	.90	1.10	1.25	1.75	2.75
Horizontal Check Valves (Fig. 103).....	.40	.55	.70	1.00	1.25	1.75	2.75
Vertical Check Valves.....	.45	.60	.75	1.10	1.50	2.00	3.00
Three Way Cock.....		1.50	1.80	2.25	3.50	4.25	6.00
Lever Handle Stop (Fig. 101).....		.60	1.00	1.40	2.25	3.50	6.00
Lever Handle Stop and Waste.....		.65	1.25	1.45	2.40	3.60	6.40
Compression Hose Bibbs.....		.50	.85	1.50			
Lever Handle Hose Bibb Cocks (Fig. 102).....		.70	1.00	1.50			

GALVANIZED STRAINER FOOT VALVES—1", 40c.; 1 1/4", 50c.; 1 1/2", 60c.; 2", 75c.

FOR USE WITH OUR INVINCIBLE PNEUMATIC TANKS OR ELEVATED TANKS, USE OUR DOMESTIC PUMPING ENGINES LISTED ON PAGE 135.

BUCKEYE IRON FORCE AND LIFT PUMPS

**SINGLE AND DOUBLE
ACTING.**

**FOR DEEP OR SHALLOW WELLS—
HAND OR POWER.**

Prices of these
Pumps, fitted
complete for any
depth of well,
quoted on ap-
plication.



Fig. 41.



Fig. 22.



No. 22.



Fig. 56.



Fig. 13.

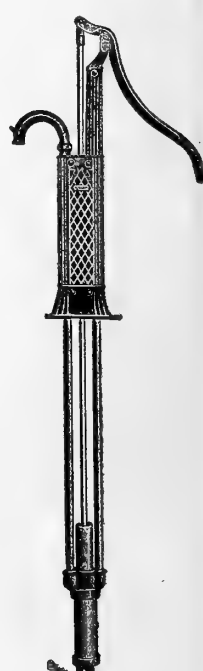


Fig. 14.

Fig. 41. No. 392.—Lift Pump, for wells up to 25 feet; can be extended to 40 feet; adjustable base and brace; iron cylinder, 3 inches. Fitted for 1 1/4-inch pipe. Pump extends 4 feet below platform, will fit in a 5-inch cased well. Price, List, \$6.75; Retail, \$4.50.

No. 22.—Single Acting. Set Length. Heavy Standard Bolted Spout Hand Force Pump. 6-inch stroke, 3-inch iron cylinder. Fitted for 1 1/4-inch pipe. Same as Fig. 41, but can be extended to 50 feet; will fit 5-inch cased well. List Price, \$11.00; Retail Price, \$6.75.

No. 22.—Same as above, but has 3-inch brass-lined cylinder. List, \$12.75; Retail, \$7.75.

No. 32.—Same Pump as No. 22, but has Windmill Head and Cock Spout, with 3-inch brass-lined cylinder. List, \$15.25; Retail, \$9.25.

No. 33.—Same as the No. 22, except that it has 3 1/2-inch brass-lined cylinder instead of 3-inch. List Price with Windmill Head and Cock Spout, \$16.25; Retail, \$10.00.

Fig. 13. No. 200.—4-ft. Set Length Force Pump for wells under 25 feet deep, 3-inch porcelain-lined cylinder, fitted for 1 1/4-inch pipe. List, \$13.00; Retail, \$9.00.

Fig. 13. No. 201.—5 1/2-ft. Set Length for wells under 25 feet deep, 3-inch brass-lined cylinder, fitted for 1 1/4-inch pipe. List, \$14.00; Retail, \$10.00.

Fig. 14. No. 215.—Deep Well Force Pump for wells from 30 to 70 feet deep, 3-inch brass-lined lower cylinder, 6-inch stroke. Fitted for 1 1/4-inch pipe. List, \$15.00; Retail, \$10.50.

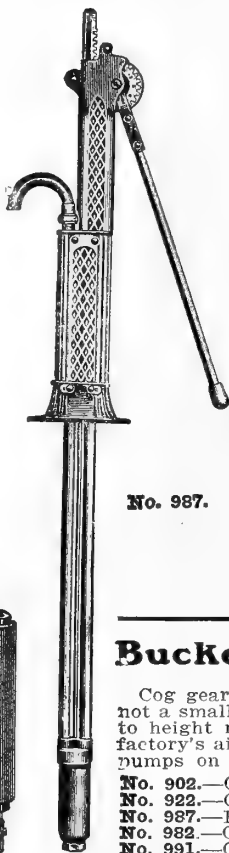
Fig. 14. No. 518.—Deep Well Force Pump, for wells from 30 to 60 feet deep, 9-inch stroke, 2 1/2-inch brass lower cylinder. List, \$17.00; Retail, \$11.75.

Fig. 14. No. 515.—Similar to the above, except that it has a three-inch brass-lined lower cylinder. For wells up to 50 feet. List, \$16.00; Retail, \$11.25.

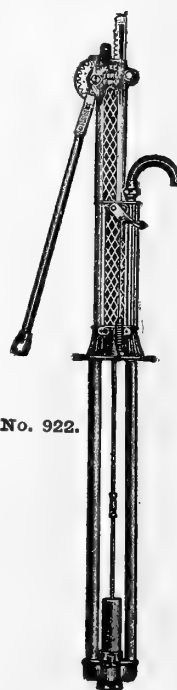
Fig. 56. No. 836.—Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 feet deep; with 3-way cock, 2 1/2-inch brass lower cylinder, 6 to 9-inch stroke, with one-inch air chamber and discharge pipe. List, \$20.50; Retail, \$14.50.



No. 902.



No. 922.



No. 922.



No. 982.

Buckeye Ratchet Head Pumps

Cog gear used on these Pumps is a complete wheel and not a small segment of the circle. Handle readily adjusted to height most convenient for operator. It has been the factory's aim to make this the most perfect line of ratchet pumps on the market.

	List.	Retail.
No. 902. —Corresponds with No. 392, but with 3-in. B. L. Cylinder.....	\$8.00	\$5.50
No. 922. —Corresponds with No. 22, but with 3-in. B. L. Cylinder.....	12.50	7.75
No. 987. —For deep drilled wells, 3-in. B. L. Cylinder.....	15.00	10.50
No. 982. —Corresponds with No. 215, but with 3-in. B. L. Cylinder.....	15.00	10.50
No. 991. —Corresponds with No. 836, but with 2 1/2-in. B. L. Cylinder.....	20.50	14.50

GOULDS PUMPS

Fig. 1536—An old favorite, made with improved ratchet handle with weighted handle, relief roller back of rack, insuring an easy working pump. A strong pump that will stand wear and constant service.

Prices of Fig. 1536, with 3-inch Iron Cylinder, List, \$7.00; Retail, \$6.00.

With 3-inch Brass Lined Cylinder, List, \$8.00; Retail, \$7.00.

With 3½-inch Iron Cylinder, List, \$8.00; Retail, \$7.00.

With 3½-inch Brass Lined Cylinder, List, \$9.00; Retail, \$8.00.

Cock Spout, extra, List, \$1.50; Retail, \$1.25.

Fig. 1308—Lift and Force Pump

For deep or shallow wells. Will go in 4-inch cased well. Brace and base adjustable. 1-inch discharge pipe can be fitted back of spout, and if underground discharge is wanted a T can be placed under platform. Spout fitted to ¾-inch hose.

No. 2 — 2½x14-inch Brass Body Cylinder, 10-inch stroke for wells 60 to 85 feet deep. List, \$17.00; Retail, \$11.00.

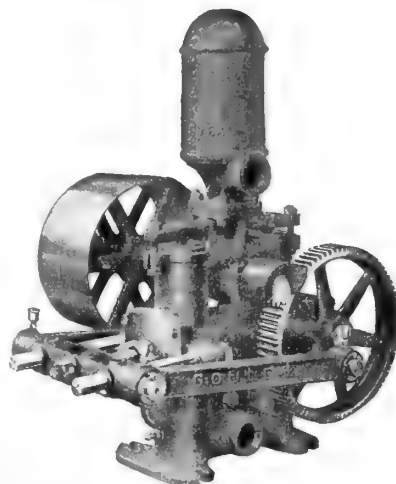
Fig. 1309—Same Pump, but with Compression Cock. List, \$19.50; Retail, \$12.75.

Fig. 1536.

GOULDS PYRAMID POWER PUMP

This cut shows the improved pattern of the Pyramid Double Acting Belt Power Force Pump. Lack of space prevents us from describing it fully here, but we recommend it to our trade as the most desirable pump of its kind. The illustration is of the 3-inch Cylinder, 5-inch stroke pump, with brass lined cylinder, 1¼-in. suction and 1½-inch discharge. Suitable for wells not more than 25 feet deep; capacity at 40 strokes per minute, 725 gals. per hour. List Price, \$55.00; Retail Price, \$45.00.

If interested in Power Pumps of any description, or for any special purpose or deep well working heads, write for special quotations and circulars.



MYERS PUMPS

WE ALSO CARRY IN STOCK SEVERAL STYLES OF THE CELEBRATED MYERS PUMPS. CIRCULARS ON APPLICATION.

PUMP CYLINDERS

Iron.			Brass Lined.			Brass.		
Size.	List.	Retail.	Size.	List.	Retail.	Size.	List.	Retail.
1/2x10..	\$4.35	\$1.50	1/2x12..	\$8.50	\$3.40	3/4x12..	\$9.75	\$4.25
3/4x10..	5.00	1.75	3/4x12..	9.50	3.80	3/4x12..	11.00	4.75
1/2x12..	6.00	2.25	1/2x13..	8.50	3.40	1/2x13..	9.75	4.25
3/4x12..	7.00	2.75	3/4x13..	9.50	3.80	3/4x13..	10.75	4.75
			1/2x14..	9.25	3.70	3/4x14..	10.50	4.50
			3/4x14..	10.25	4.10	3/4x14..	11.75	5.00

Century Double Acting Force and Tank Pump

The construction of this pump is such that all the valves are located on top of the pump. Each valve can be reached independently by removing the individual cap located immediately over it. The valve seats are brass, with a full 2-inch water-way which does not restrict the flow of water, and causes the pump to operate easily. The valves are metal, faced with rubber, and are of the poppet pattern, which raise clear from the seat, preventing any foreign substance from lodging under them. The Cylinder is highly polished. The piston rod is made from 13-16-inch drawn polished steel, and has a heavy brass stuffing nut. The handle is reversible; can be placed on either end, making it a right or left hand pump. The suction and discharge ports are fitted for hose and threaded on the inside for 2-inch iron pipe. The base is separate from the pump to which it is firmly bolted.

5x5 Cylinder, capacity at 40 strokes per minute, 2000 gals. per hour.

No. 470—Pump with hose nipple, hose attachment, hose band and strainer. Price, \$7.00.

HOUSE FORCE PUMP

Has a 3-inch brass-lined cylinder, brass valve seats, rubber-faced valves and brass covered piston rod. Strongly and carefully made and tested under pressure before leaving factory. Working parts are readily accessible, making it an easy pump to repair.

No. 286—Pump with plain lever handle. List Price, \$14.00; Our Price, \$10.00.

No. R 286—Same as No. 286, but with cog gear handle. List Price, \$15.00; Our Price, \$11.00.

For either of the above, fitted with Brass Air Cylinder to be used with compressed air water supply tanks, add to List, \$3.00; to Our Price, \$2.00.

No. 470.

No. R-286

No. 286

REVERSIBLE
DISCHARGE

REVERSIBLE
DISCHARGE

BRASS

BRASS

1½" RIGHT
OR LEFT SUCTION

1½" RIGHT
OR LEFT SUCTION

HOSE BAND

STRAINER

Closed Top Pitcher Spout Pump

SIZES AND PRICES.

No. 1—Diam. of Cylinder, 2½ in.; Suction, 1 in. Polished Iron Cylinder. List, \$4.25. Retail, \$1.30.

No. 2—Diam. of Cylinder, 3 in.; Suction, 1½ in. Polished Iron Cylinder. List, \$4.75. Retail, \$1.45.

No. 3—Diam. of Cylinder, 3½ in.; Suction, 1¾ in. Polished Iron Cylinder. List, \$5.25. Retail, \$1.60.

PITCHER PUMP LEATHERS.

No. 1—Valve and flat Plunger Leathers, each, 10c.

No. 2—Valve and flat Plunger Leathers, each, 12c.

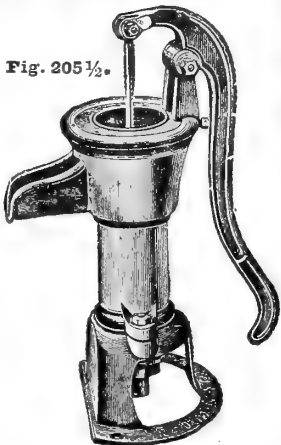
No. 3—Valve and flat Plunger Leathers, each, 15c.

No. 1—2½-inch Leather Cups, 12c.

No. 2—3-inch Leather Cups, 16c.

No. 3—3½-inch Leather Cups, 20c.

Fig. 205½.



Brass Jacket Drive Well Points

No.	Diameter of Pipe.	Length Jacket.	Length Pipe.	No. Holes.	No. 60 Gauge, List Price Per Doz.	Retail Price Each.
90	1¼	18 in.	24 in.	100	\$36.00	\$0.90
94	1¼	24 in.	30 in.	130	46.00	1.15
98	1¼	30 in.	36 in.	165	56.00	1.40
102	1¼	42 in.	48 in.	270	76.00	1.90
126	1½	18 in.	24 in.	120	48.00	1.20
140	1½	24 in.	30 in.	162	60.00	1.50
144	1½	30 in.	36 in.	198	72.00	1.80
148	1½	42 in.	48 in.	276	96.00	2.40

Malleable Drive Caps, Hexagon-shaped, for 1¼ Pipe, 20c.

Malleable Drive Caps, Hexagon-shaped, for 1½ Pipe, 25c.

Write for Special Cash Price on Drive Well Points.



Wood Chain Pump

This Wood Curb Chain Pump is first-class in every respect; nicely finished; nicely painted and striped.

PRICES.

Chain Pump Curbs, each	\$2.25
Chain Pump Tubing, per foot	.06
Chain (running 3½ feet to pound), per lb.	.08



Price, 8c.

IXL Rubber Bucket

Purifies by means of oxygen forced into water.

Price: Elevator, with 25-foot chain and jappaned bottom wheel for 10-foot cistern, \$7.00.

Same, with 30-foot chain for 12-foot cistern, \$7.75.

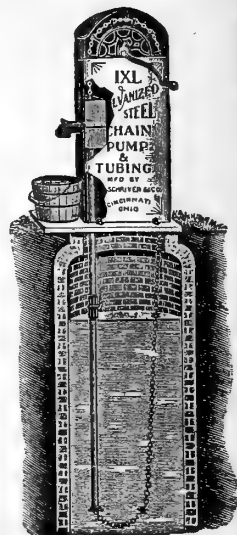
Extra chain, 15c. per foot.

IXL Galvanized Steel Chain Pump

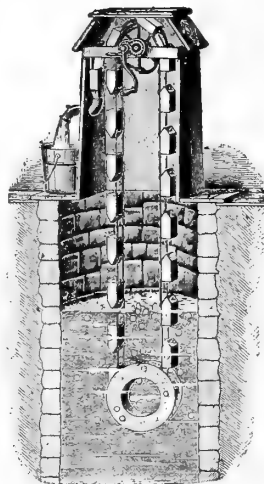
Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb	\$3.00
Gem Curb	2.50
Tubing, per foot	.08
Coupling	.20
Rubber Buckets	.08
Iron Platform	4.50
Iron Platform for Gem	1.00
Chain, per lb.	.08



No. 2 National Water Elevator and Purifier



Gem Galvanized Steel Chain Pump



Has extension base, which also projects below platform and is easily fitted by cutting a square hole in the platform the length and the width of bottom of pump.

The fixtures are first-class and anti-freezing.

The pump is painted stone-color, with two coats of the best paint, and is neatly stenciled and varnished.

Made entirely of galvanized steel, in four pieces, locked together with its own metal.

There are neither rivets nor solder on it, making it very strong. Price, \$2.50.

The Queen Rubber Bucket.



Price 8c

Victor Anti-Freezing.



Price, 10c.

Crosby Swivel Link Bucket.



Price, 10c. Crosby Plain, 8c.

No. 30 Star Water Elevator and Purifier

Similar to the No. 2 Water Elevator, except that the buckets are slightly smaller and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, is considered by some better for deep wells.

Price: Elevator and 25-foot chain and jappaned bottom wheel for 10-foot cistern, \$6.00. Extra chain, per foot, 15c.

Directions for Fitting Up Chain Pumps

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 ft. 6 in. to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held securely by tubing brace at bottom of curb.

BALTIMORE WOOD PUMPS

With and Without Porcelain Cylinder.
PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined.		6x6 Lined.		7x7 Lined.	
	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
10 feet....	\$7.50	\$5.25	\$9.00	\$6.30	\$10.75	\$7.60
12 feet....	7.90	5.60	9.40	6.65	11.15	7.80
14 feet....	8.30	6.00	9.80	7.00	11.55	8.25
16 feet....	9.10	6.50	10.60	7.50	12.35	9.00
18 feet....	9.70	7.00	11.00	8.00	12.95	9.25
20 feet....	10.50	7.50	11.75	8.25	13.50	9.50
22 feet....			12.75	9.00	14.90	10.50
24 feet....			13.50	9.50	16.05	11.25
26 feet....			15.00	10.50	18.35	13.00
28 feet....			16.30	11.50	20.45	14.50
30 feet....			19.50	13.75	22.50	16.00
32 feet....			21.50	15.25	23.50	16.50
34 feet....			24.50	17.25	26.50	18.75
36 feet....			27.50	19.25	29.50	21.00
38 feet....			30.50	21.50	32.50	23.00

PRICES OF BALTIMORE WOOD PUMPS

NOT FITTED. AS REVISED BY
 National Association of Wood Pump Manufacturers,
 November 20, 1907.

This Price List Supersedes All Hitherto Used.

"No. 0."—STOCK PUMPS. 7x7 Inches, 4-inch Bore.

	List Price.	List Price.
	Unlined.	Porc. Lined.
6 feet long.....	\$7.00	\$8.75
7 feet long.....	8.00	9.75
8 feet long.....	9.00	10.75
10 feet long.....	11.00	12.75
12 feet long.....	13.00	14.75
6 feet long, reamed for 6x6 extension pipe, unlined 7.25		
Retail Prices on Pump Stocks 30 Per Ct. from List Prices.		

"No. 1."—THE FAVORITE HOUSE PUMPS.

6x6 in., 3½-in. Bore.

	List Price.	List Price.
	Unlined.	Porc. Lined.
6 feet long.....	\$5.50	\$7.00
7 feet long.....	6.10	7.60
8 feet long.....	6.70	8.20
10 feet long.....	7.90	9.40
12 feet long.....	9.10	10.60
6 feet long, reamed for 6x6 extension pipe, unlined 5.50		
Retail Prices on Pump Stocks 30 Per Ct. from List Prices.		

PUMPS FOR DRIVE WELLS

To Fit 1¼, 1½, or 2-inch Iron Pipe.
 No. 1 House, 6 feet, porcelain lined Iron Cylinder,
 List Price, \$7.50.
 30 Per Cent. from List Price.

20th CENTURY CORRUGATED GALVANIZED STEEL PUMP

Made of extra annealed and heavily galvanized steel with reinforced seams. Corrugations add strength and this construction admits of expansion, thus preventing breaking from freezing. Do not rot, warp, crack or water soak. They are sanitary, preventing absorption and tainted water. Construction throughout is good, and the result is a reliable and very desirable steel pump at practically the same cost as a wooden pump. These pumps have ¾-inch cylinder, and unless otherwise ordered are fitted to take 1¼-inch galvanized pipe, although they can be supplied for special 1½-inch lock-seam tubing.

6 feet....List, \$7.00. Retail, \$5.25
 7 feet....List, 7.50. Retail, 5.65
 8 feet....List, 8.00. Retail, 6.00
 Couplings, per pair, List, 40c.; Retail, 30c.
 Lock-seam Tubing, per ft., List, 17c.; Retail, 13c.



STRAP HINGES.



	Light Strap.		Heavy Strap.	
	List.	Retail.	List.	Retail.
	Doz. Pcs.	Per Pr.	Doz. Pcs.	Per Pr.
4 in.	\$1.10	10c.	\$1.60	10c.
6 in.	1.70	10c.	2.80	15c.
8 in.	2.40	15c.	4.50	20c.
10 in.	3.30	20c.	6.80	25c.
12 in.	4.90	25c.	10.40	30c.

SCREW HOOK AND STRAP HINGES.



6 to 12 inches, per lb.....7c.
 14 to 20 inches, per lb.....6c.
 22 to 36 inches, per lb.....5c.

TUBING AND MISCELLANEOUS

	List Prices.
4x4, 12 feet long and under, per foot.....	\$0.20
4x4, over 12 feet, per foot.....	.22
6x6 Extension Tubing, per foot.....	.60
Cylinder Block, Porcelain Lined, 3 feet long.....	3.30
Cylinder Block, Porcelain Lined, 4 feet long.....	3.90
Cylinder Block, Porcelain Lined, 5 feet long.....	4.50
Cylinder Block, Porcelain Lined, 6 feet long.....	5.10
Cylinder Block, Porcelain Lined, 7 feet long.....	5.70
Cylinder Block, Porcelain Lined, 8 feet long.....	6.30
6x6 Couplings for 4x4 Tubing.....	.50
Buckets, 5-in., ea., No. 00, List, \$1.25; 4-in., ea., No. 0.....	1.00
Buckets, 3½-in., No. 1, ea., List, 80c.; 3-in., No. 2, ea.....	.65
Handle, any size, ea., List, 30c.; Handle Links or Knuckles.....	.25
Check Valves, per dozen.....	1.50
Iron Connection for Drive Wells, fitted for 1¼-inch and 1½-inch iron pipe.....	1.00
Extra Iron Spout, with loose collar.....	.40
Extra Wood Spouts, ea., List, 15c.; Extra Spout Braces, ea.....	.15
Extra Bands, each.....	.10
Extra Ears or Brackets, Nos. 35 and 36, each.....	.40
1-in. Rod Couplings, pair, List, 40c.; Ex. Frost Faucets, ea.....	.40
Plunger Rod, per foot.....	.03
Our Special Prices 30 Per Cent. From List Prices.	

IRON PUMP LEATHERS

Cup Leather.



CYLINDER CUP.	
1 in.....	\$0.05
1½ in.....	.10
1¾ in.....	.10
2 in.....	.12
2½ in.....	.12
3 in.....	.16
3½ in.....	.20
4 in.....	.25
5 in.....	.50

Flat Plunger Leather.



T HINGES



	Light T.		Ex. Heavy T.	
	List.	Retail.	List.	Retail.
	Doz. Pcs.	Per Pr.	Doz. Pcs.	Per Pr.
4 in.	\$0.80	5c.	\$1.80	10c.
6 in.	1.20	10c.	3.00	15c.
8 in.	1.50	15c.	5.00	20c.
10 in.	2.20	20c.	7.40	25c.
12 in.	3.00	25c.	10.70	30c.

Cups for Upper Plunger.

1¼ inch.....10c.
 Goes with 2½-in. lower cylinder, 2 3-16 in.....12c.
 Goes with 3-in. lower cylinder, 2 9-16 in.....15c.
 Goes with 3½-in. lower cylinder, 2 13-16 in.....20c.
 Goes with 4-in. lower cylinder.

FLAT PLUNGER LEATHERS.

2½ in. for 2 in. Cylinder.....	\$0.10
3 in. for 2½-in. Cylinder.....	.12
3½ in. for 3 in. Cylinder.....	.15
4 in. for 3½-in. Cylinder.....	.18
4½ in. for 4 in. Cylinder.....	.20

LOWER VALVE LEATHERS.

2½ in.....	\$0.10
3 in.....	.12
3½ in.....	.15
4 in.....	.18

Lower Valve Leather.



W & B' MACHINISTS' SCREW WRENCH. "W & B' REGULAR WRENCH.

Knife Handle.



IMPROVED "ACME" STEEL WRENCH

"W & B" COMBINATION WRENCH.

Made of Crucible Steel—Bright Finish.



"BULL-DOG" WRENCHES.



TWIN WRENCHES.



SPRING COTTERS.

Prices on application.



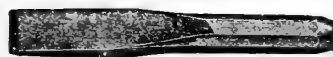
"ALWAYS READY" WRENCH.



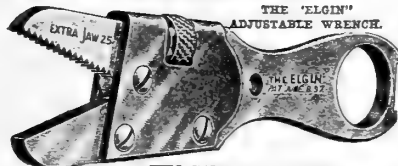
PUNCH.



COLD CHISEL.

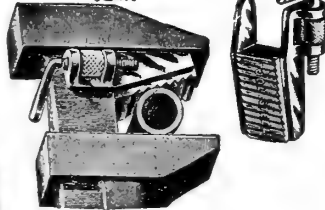


THE "ELGIN" ADJUSTABLE WRENCH.



WILL HOLD PIPE OR NUTS.

MONKEY WRENCH PIPE JAW.



"W. & B." MACHINISTS' KNIFE HANDLE WRENCHES.

Retail	6 in.	8 in.	10 in.	12 in.	15 in.	18 in.	21 in.
price, each	\$0.50	\$0.55	\$0.65	\$0.75	\$1.50	\$1.75	\$2.00
List price, doz.	9.00	10.00	12.00	14.00	24.00	30.00	36.00

WROUGHT SCREW AGRICULTURAL WRENCHES.

Retail price, each	6 in.	8 in.	10 in.	12 in.	15 in.
	\$0.30	\$0.40	\$0.50	\$0.60	\$0.85
List price, per dozen	10.00	12.00	14.00	17.00	24.00

COMBINATION WRENCH

	List, Doz.	Retail, Each.
10—Wire or pipe from 1/4 to 1 in. outside diameter.	\$25.25	\$1.75
12—Wire or pipe from 1/2 to 1 1/4 in. outside diameter	28.50	2.00
15—Wire or pipe from 1/2 to 2 1/4 in. outside diameter	40.50	2.75
18—Wire or pipe from 1/2 to 3 in. outside diameter	72.00	5.00

ACME STEEL WRENCHES

Retail price, each	6 in.	8 in.	10 in.	12 in.	15 in.
	\$0.50	\$0.65	\$0.75	\$0.90	\$1.25
List price, per dozen	10.00	12.00	14.00	17.00	24.00

"BULL-DOG" WRENCHES

No. 0—Pocket size, 4 in. long. List price, per dozen, \$3.00. Retail price, 15c. each.	
No. 1—5 1/2 in. long. List, per doz., \$4.00. Retail, 20c. each.	
No. 1 1/2—5 1/4 in. long. List, per doz., \$5.00. Retail, 25c. each.	
No. 2—9 in. long. List, per doz., \$12.00. Retail, 60c. each.	

"ALWAYS READY" WRENCHES

Special Steel, Forged, Tempered in Oil.

No. 1—5 in. long. List price, per doz., \$4.60. Retail price, 30c. ea.	
No. 2—7 in. long. List price, per doz., \$6.75. Retail price, 40c. ea.	

TWIN WRENCHES

Twin, 10 in. long. List price, per doz., \$18.00. Retail price, 75c. ea.	
--	--

PUNCH

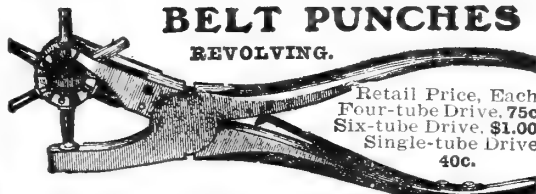
	1/2 in.	5/8 in.
Retail price, each	\$0.10	\$0.15
List price, per dozen	3.00	4.50

COLD CHISEL

	1/2 in.	5/8 in.
List price, per dozen	\$4.00	\$5.00
Retail price, each	.15	.20

BELT PUNCHES

REVOLVING.



Retail Price, Each,
Four-tube Drive, 75c.
Six-tube Drive, \$1.00.
Single-tube Drive,
40c.

Round



Each.
Nos. 1 to 6, Ret'l price, 10c. Nos. 7 to 9, Ret'l price, 15c

RIVET PUNCH

FOR MENDING
HARNES, BELT-
ING, ETC.



Plymouth 50c.
Rivets, box of 50. 10c.
Rivets, box of 100. 15c.
Four boxes..... 50c.

THE "ELGIN" ADJUSTABLE WRENCH

Both Jaws Hardened. Length 7 Inches. Wrench is All Steel. Weight 10 Ounces. It will fit a pipe up to 3/4 inch or a nut that is 1 1/4 in. across. Price, 75c. each. Extra Jaws, 25c. each.

RE-THREADING ATTACHMENT WITH INTER-CHANGEABLE DIES.

It Can Be Attached to All of the Elgin Wrenches of 1905 Pattern.

Price of attachment with one die, retail price, 75c. each. Extra dies, retail price, 40c. each.

Will re-thread damaged bolts in corners and angles without removing the bolt from its position to a vise. Extra dies can be had in 1/4, 5/16, 3/8, 7/16 and 1/2 inch.

MONKEY WRENCH PIPE JAW.

When there is only a little work to do (not enough to warrant buying a pipe wrench) "The Elgin" Jaw on a monkey wrench will do it.

Price, each, 30c. Will fit any ordinary 10 or 12-inch monkey wrench.



MACHINE BOLTS



CARRIAGE BOLTS

Length, Inches.	List, 100.				Retail, Each.				Length, Inches.	List, 100.				Retail, Each.			
	1/4	5/16	3/8	1/2	1/4	5/16	3/8	1/2		1/4	5/16	3/8	1/2				
1 1/4	\$1.70	\$2.00	\$2.00	\$2.40	\$2.40	\$2.40	\$3.60	\$2.02	1 1/4	\$1.00	\$2.00	\$1.90	\$2.40	\$2.40	\$3.00	\$2.04	
2	1.78	2.12	2.12	2.56	2.56	2.56	3.86	2.02	2	1.04	2.00	1.98	2.46	2.46	3.00	2.04	
2 1/4	1.86	2.24	2.24	2.72	2.72	2.72	4.12	2.02	2 1/4	1.08	2.06	2.02	2.52	2.52	3.00	2.04	
3	1.94	2.36	2.36	2.88	2.88	2.88	4.38	0.03	3	1.12	2.14	2.14	2.58	2.58	3.00	2.04	
3 1/4	2.03	2.48	2.48	3.04	3.04	3.04	4.64	0.03	3 1/4	1.16	2.22	2.22	2.64	2.64	3.00	2.04	
4	2.10	2.60	2.60	3.20	3.20	3.20	4.90	0.03	4	1.20	2.30	2.30	2.70	2.70	3.11	0.04	
4 1/4	2.18	2.72	2.72	3.36	3.36	3.36	5.16	0.03	5	1.24	2.38	2.38	2.76	2.76	3.22	0.04	
5	2.26	2.84	2.84	3.52	3.52	3.52	5.42	0.03	5 1/4	1.28	2.46	2.46	2.82	2.82	3.33	0.04	
5 1/4	2.34	2.96	2.96	3.68	3.68	3.68	5.68	0.03	6	1.32	2.54	2.54	2.88	2.88	3.44	0.04	
6	2.42	3.08	3.08	3.84	3.84	3.84	5.94	0.03	6 1/4	1.36	2.62	2.62	2.94	2.94	3.56	0.04	
6 1/4	2.50	3.20	3.20	4.00	4.00	4.00	6.20	0.04	7	1.40	2.70	2.70	3.00	3.00	3.66	0.04	
7	2.58	3.32	3.32	4.16	4.16	4.16	6.46	0.04	7 1/4	1.44	2.78	2.78	3.06	3.06	3.77	0.05	
7 1/4	2.66	3.44	3.44	4.32	4.32	4.32	6.72	0.04	8	1.48	2.86	2.86	3.12	3.12	3.88	0.06	
8	2.74	3.56	3.56	4.48	4.48	4.48	6.98	0.04	8 1/4	1.52	2.94	2.94	3.18	3.18	3.99	0.05	
9	2.80	3.60	3.60	4.60	4.60	4.60	7.50	0.04	9	1.56	3.02	3.02	3.24	3.24	4.10	0.05	
10	3.06	4.04	4.04	5.12	5.12	5.12	8.02	0.04	10 1/4	1.64	3.18	3.18	3.36	3.36	4.32	0.05	
11	3.22	4.28	4.28	5.44	5.44	5.44	8.54	0.05	11	1.72	3.34	3.34	3.48	3.48	4.54	0.05	
12	3.38	4.52	4.52	5.76	5.76	5.76	9.06	0.05	12	1.80	3.50	3.50	3.60	3.60	4.76	0.05	
13				6.08	6.08	6.08	9.58	0.05	13	1.88	3.66	3.66	3.72	3.72	4.98	0.08	
14				6.40	6.40	6.40	10.10	0.05	14	1.96	3.82	3.82	3.84	3.84	5.20	0.08	
15				6.72	6.72	6.72	10.62	0.06	15	2.04	3.98	3.98	3.96	3.96	5.42	0.08	
16				7.04	7.04	7.04	11.14	0.06	16	2.12	4.14	4.14	4.08	4.08	5.64	0.08	
17							11.66	0.06	17	2.20	4.30	4.30	4.20	4.20	5.86	0.08	
18							12.18	0.06	18	2.28	4.46	4.46	4.32	4.32	6.08	0.08	
19							12.70	0.07	19	2.36	4.62	4.62	4.44	4.44	6.30	0.08	
20							13.22	0.07	20	2.52	4.94	4.94	4.68	4.68	6.74	0.08	
For Other Sizes Write for Prices																	
For Flow Boils See																	
Page 93																	

For Other
Sizes Write
for Prices

For Plow Bolts See
Page 93

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Hay
Forks

- Each.
- No. 26.—Two-tine hay, common ferrule, 6-foot straight handle.....\$0.65
- No. 026.—Two-tine, strap ferrule, 6-foot straight handle..... .80
- No. 027.—Two-tine, strap ferrule, 7-foot straight handle..... .90
- No. 028.—Two-tine, strap ferrule, 8-foot straight handle..... 1.00
- No. 36.—Three-tine, 6-foot handle, common ferrule..... .75
- No. 035.—Three-tine, 5-foot handle, strap ferrule..... .75
- No. 036.—Three-tine, 6-foot handle, strap ferrule..... .85
- No. 037.—Three-tine, 7-foot handle, strap ferrule..... .90
- No. 038.—Three-tine, 8-foot handle, strap ferrule..... 1.00

Long Handle
Manure
Forks

- Each.
- No. 44½ Z.—Oval, four-tine, light, not strapped.....\$0.60
- No. 044½ Z.—Four-tine, 4½-foot handle, strap ferrule..... .70
- No. L 044½ Z.—Four-tine, patent locked, strapped..... .75
- No. L 044½ Z.—Patent locked, extra heavy, full polished, strapped.... .90
- No. 054½ X.—Five-tine, ferrule, long handle..... .90
- No. 064½ X.—Six-tine, ferrule, long handle..... 1.00
- D-HANDLE MANURE FORKS**
- No. 04DZ.—D Handle, four-tine.....\$0.65
- No. 4 W.—D handle, four-tine, plain ferrule..... .90
- No. 04 D.—D handle, four-tine, cap ferrule..... .80
- No. 05 D.—D handle, five-tine, cap ferrule..... 1.00
- No. 06 D.—D handle, six-tine, cap ferrule..... 1.10
- No. 151.—Four-tine, diamond tine, heavy, malleable D handle..... 1.25
- No. 1153.—Four 16-inch extra heavy tines, 27-inch wood D handle..... 1.50
- No. 1157.—Five 16-inch extra heavy tines, 27-inch wood D handle..... 1.75
- No. 044½.—Bachelor Fork, four-tine, 4½-ft. handle, strap ferrule..... .70
- No. 44½.—Bachelor Fork, four-tine, 4½-ft. handle, plain ferrule..... .65

Steel Barley Forks

- No. B 185.—Four 18-in. oval tines, plain ferrule, 5-ft. bent handle \$1.00
- No. B 0185.—Four 18-in. oval tines, strap ferrule, 5-ft. bent handle 1.10

Spading Forks

No. A H O L W.—Pat. Locked Spading Forks, extra heavy, strap ferrule. Price, \$1.10 each.

No. H W.—Four-tine, angular back. Price, \$1.00 each.

No. O L D.—Medium weight, angular tine, malleable D handle, strap ferrule. Price, 85c. each.

No. S 4.—Columbia Socket, 4 heavy polished angular tines, solid socket, 4-foot handle. Price, \$1.00 each.

No. S D.—4 heavy polished angular tines, solid socket, iron D handle. Price, \$1.00 each.

No. J O W.—Jumbo, 4 polished tines, extra heavy strapped ferrule, wood D handle. Price, \$1.10 each.

No. J O 4.—4 polished tines, extra heavy strapped ferrule, 4-ft. handle. Price, \$1.10 each.

No. B 4 D.—Boys, four-tine. Price, 55c. each.

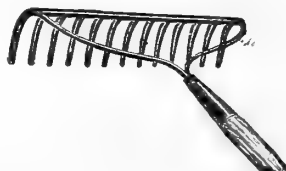


STEEL RAKES



- Each.
- No. 10 C.—Sgle. shank, steel, 10-th...45c.
- No. 12 C.—Sgle. shank, steel, 12-th...50c.
- No. 14 C.—Sgle. shank, steel, 14-th...60c.
- No. 16 C.—Sgle. shank, steel, 16-th...65c.

Solid Bow Steel Garden Rakes



- No. B 12.—Prize bow-braced rake, solid steel, 13 teeth. Retail price, 65c. each.
- No. B 14.—Prize bow-braced rake, solid steel, 15 teeth. Retail price, 80c. each.
- No. B 16.—Solid bow-braced rake, solid steel, 16 teeth. Price, 90c. each.

MALLEABLE RAKES

- Each.
- No. 10 S M.—10-tooth, single shank...20c.
- No. 12 S M.—12-tooth, single shank...25c.
- No. 14 S M.—14-tooth, single shank...32c.
- No. 16 S M.—16-tooth, single shank...35c.

- No. 10 B M.—10-tooth, braced shank 25c.
- No. 12 B M.—12-tooth, braced shank 30c.
- No. 14 B M.—14-tooth, braced shank 35c.
- No. 16 B M.—16-tooth, braced shank 40c.

GENERAL UTILITY FORK



- Each.
- No. 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule....\$1.70
- No. 912.—Twelve-tine, scoop shape, malleable D handle, strap ferrule. 2.00
- Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.
- No. 714.—Coke Forks, fourteen-tine, D handle, strap ferrule..... 2.15
- No. 100 S.—Ten-tine, D handle, stone fork..... 1.75
- No. 102 S.—Twelve-tine, D handle, stone fork..... 2.00

ENSILAGE FORKS

- No. 508 F.—Eight 16-inch tines, strap ferrule, iron D handle, each...\$1.30
- No. 510 F.—Ten 17-inch tines, strap ferrule, iron D handle, each..... 1.75

OAT AND BARLEY FORKS



- No. 4 W B.—Price, each.....\$0.75
- No. 6 W B.—Each..... .90

STABLE FORKS



- Each.
- Three-prong Hickory, Bonner.....\$0.60
- Three-prong Oak Wood Stable Forks..... .65
- Four-prong Oak Wood Stable Forks .85

GRITCO XX WOOD RAKES



Gritco XX 3-Bowed Wood Lawn Rakes, 24 Teeth, 50c.

The XX can be furnished with either steel or wooden bows.

WIRE LAWN RAKES, No. 24



As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish. 21-inch head. 24 teeth, 25c. each.

Reversible, Heavily Tinned.

AUTOMATIC SELF-CLEANING
LAWN RAKES

A backward motion of the rake from operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers.

Prices.

22 teeth, 60c. each. 26 teeth, 70c. each.

HARVEST RAKES



No. 211.—This rake takes the place of the old style wood rake with wood or wire bars. Ash head, ten hickory teeth, a combined malleable brace and socket, and a good handle. The malleable brace is fastened to the rake head with two rivets and two extension lugs that grip around the rake head. Price, 25c. each.

Split Head Rakes

- 8-Tooth, All-Wood Hay Rake, 25c.
- 10-Tooth, All-Wood Hay Rake, 30c.
- 20-Tooth, All-Wood Lawn Rake, 50c.

Ole Olsen

Lawn Rake

Malleable Ferrule, Price, 50c.

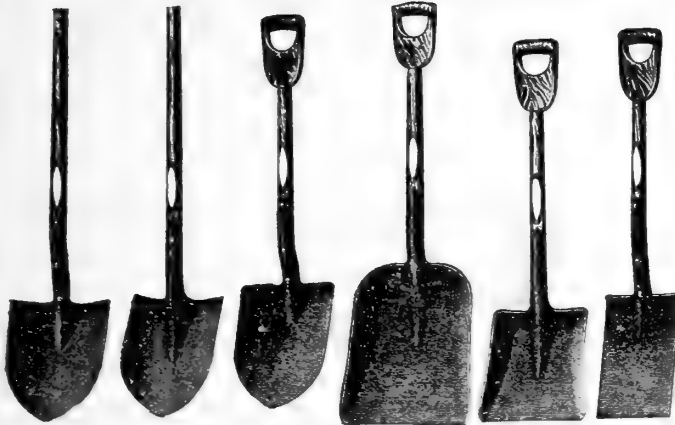
True Temper
Garden Outfit

No. T T G O.—7-piece set, consisting of one each extra quality tools, Laid Edge Hoe, Bow Rake, Spading Fork, Weeder, Garden Trowel, Turf Edger and two Stakes with 45-ft. lines. Price, \$4.50.

Garden Sets

No. 3 P F.—3-piece, 5-T Rake, Shovel and Hoe. \$1.00 set.





Trade No. 542. Trade No. 242. Trade No. 732. Trade No. 263. Trade No. 212. Trade No. 552.

Always Order Shovels and Spades by Number

PLAIN BACK SHOVELS—Carbon Steel

No.	Each.
542 Gritco—Long Handle, Round Point Shovels, Size No. 2...	\$1.00
512 Gritco—D Handle, Square Point Shovels, Size No. 2...	1.00
513 Gritco—D Handle, Square Point Shovels, Size No. 3...	1.05
514 Gritco—D Handle, Square Point Shovels, Size No. 4...	1.10
532 Gritco—D Handle, Round Point Shovels, Size No. 2...	1.05
533 Gritco—D Handle, Round Point Shovels, Size No. 3...	1.05
742 Balto.—Long Handle, Round Point Shovels, Size No. 2...	.75
722 Balto.—Long Handle, Square Point Shovels, Size No. 2...	.75
732 Balto.—D Handle, Round Point Shovels, Size No. 2...	.75
712 Balto.—D Handle, Square Point Shovels, Size No. 2...	.75
713 Balto.—D Handle, Square Point Shovels, Size No. 3...	.80
714 Balto.—D Handle, Square Point Shovels, Size No. 4...	.85
No. 2—Long Handle, Riveted Back, Round Point Shovels.	.63

SNOW SHOVELS Long Handle, Steel Socket....\$0.50

HOLLOW BACK SHOVELS—Carbon Steel

No.	Each.
242 Oriole—Long Handle, Round Point Shovels, Size No. 2...	\$0.60
222 Oriole—Long Handle, Square Point Shovels, Size No. 2...	.60
212 Oriole—D Handle, Square Point Shovels, Size No. 2...	.60
213 Oriole—D Handle, Square Point Shovels, Size No. 3...	.65
214 Oriole—D Handle, Square Point Shovels, Size No. 4...	.70
215 Oriole—D Handle, Square Point Shovels, Size No. 5...	.75
216 Oriole—D Handle, Square Point Shovels, Size No. 6...	.80

HOLLOW BACK SCOOPS

No.	Size.	Each.
263 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 3...		\$0.70
264 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 4...		.75
265 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 5...		.80
266 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 6...		.85
274 Oriole—D Handle, West. Pattern or Grain Scoop, No. 4...		.80
276 Oriole—D Handle, West. Pattern or Grain Scoop, No. 6...		.85
278 Oriole—D Handle, West. Pattern or Grain Scoop, No. 8...		.90

Long Handle Scoops same price as D Handle.

PLAIN BACK SPADES

No. 552 Gritco—D Handle Spades, Size No. 2.....	Each, \$1.00
No. 554 Gritco—Long Handle Spades, Size No. 2.....	1.00
No. 752 Balto.—D Handle Spades, Size No. 2.....	.75
No. 754 Balto.—Long Handle Spades, Size No. 2....	.75

HOLLOW BACK SPADES

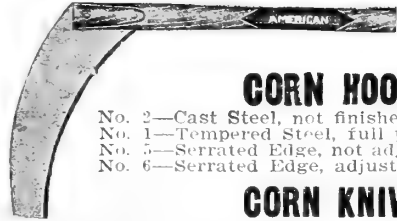
No. 252 Oriole—D Handle Spades, Size No. 2.....	Each, \$0.75
No. 254 Oriole—Long Handle Spades, Size No. 2.....	.75

HATCHETS

Beatty's Hatchets. Half Pattern and No. 2 Shingling. best quality, each, 60c.

GRASS HOOKS

Best English Grass Hook—No. 2.....	\$0.35
Best English Grass Hook—No. 3.....	.50
Best English Hedge or Grass Hooks—No. 4.....	.60
Best English Hedge or Grass Hooks—No. 5, riveted back.....	.75



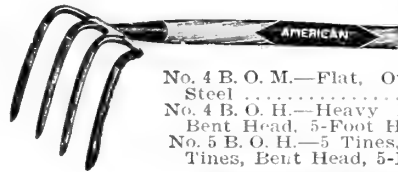
CORN HOOKS

No. 2—Cast Steel, not finished.....	\$0.20
No. 1—Tempered Steel, full polish.....	.25
No. 5—Serrated Edge, not adjustable.....	.30
No. 6—Serrated Edge, adjustable.....	.35

CORN KNIVES

No. 21—"Will Cut" or Clipper.....	\$0.25
No. 23—"Will Cut," Broad, Forged Steel.....	.30
Eureka Curved Blade, Forged Steel, Hardened in Oil.....	.50

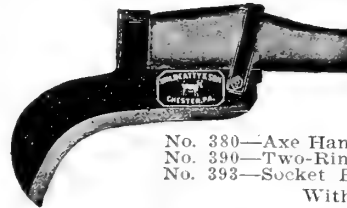
POTATO HOOKS



No. 4 B. O. M.—Flat, Oval, 4 Tine, Solid Steel.....	\$0.63
No. 4 B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.....	.70
No. 5 B. O. H.—5 Tines, Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.....	.80

MANURE HOOKS

No. M 40—Four Oval Tines, Bent Head, Plain Ferrule, 6-foot Handle.....	\$0.70
No. M 60—Six Oval Tines, Bent Head, Plain Ferrule, 6-foot Handle.....	.80

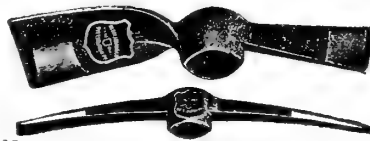


BUSH AND BRIAR HOOKS

No. 380—Axe Handle Bush Hook.....	\$0.75
No. 390—Two-Ring Bush Hook.....	.75
No. 393—Socket Briar.....	1.25

With knife on back.

PICKS, MATTOCKS AND GRUB HOES



No. 1 Gritco—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality War. Steel Railroad Picks, 75c.

No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular, Iron Railroad Picks, 50c.

No.	Retail.	List.
1—Gritco—5-lb. Best Quality War. Steel Mattocks.....	\$0.90	
1—Gritco—6-lb. Best Quality War. Steel Mattocks.....	1.00	
2—5 and 6-lb. Best Refined Iron Mattocks (Steel Cutters).....	Each, .70	\$17.00
1 and 2 Gritco—Warranted Steel Grub Hoes.....	.65	
1—3½-lb. Best Refined Iron Grub Hoes (Steel Bit).....	Each, .45	12.00
2—4-lb. Best Refined Iron Grub Hoes (Steel Bit).....	Each, .50	13.00

No.	PICK AND MATTOCK HANDLES	Retail.
XX—Best Quality Selected Second Growth Hickory Pick Handles.....		\$0.30
Excelsior—Good Quality White Hickory Pick Handles.....		.25
1—Good Quality White and Red Hickory Pick Handles.....		.20
2—Mixed White and Red Hickory Pick Handles.....		.15

AXES

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Gritco—3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs., each, 75c.

Red Warrior can be had in any weight from 3 to 5½ lbs., each, 75c.

AXE HANDLES

No. E X C—Extra Selected Second Growth, All White Hickory Axe Handles.....	\$0.25
No. 1—Selected White Hickory Axe Handles.....	.20
No. 2—White and Red Hickory Axe Handles.....	.15
No. 3—White and Red Hickory Axe Handles.....	.12

RIVETLESS STEEL STOCK TROUGH



Made of Steel Boiler Plate $\frac{1}{4}$ of an inch thick, most durable material obtainable. Half Round, which gives them strength; also rendering them easy to clean. Have round edges, which prevent all injury to stock while drinking from them. Ends are cast-iron, held in place by steel bands instead of rivets, these ends being provided with feet for convenience in fastening; also taps for overflow and waste. They are guaranteed against damage from freezing, as the elasticity of the steel prevents all injury of this kind, and it allows the trough to expand and all ice to become loose.

	Length	Width.	Depth.	Capacity.	Our Special Price.
No. 2.	4 ft.	18 in.	9 in.	28 gals.	\$4.50
No. 2.	5 ft.	18 in.	9 in.	35 gals.	5.65
No. 2.	6 ft.	18 in.	9 in.	42 gals.	6.75
No. 2.	8 ft.	18 in.	9 in.	56 gals.	9.00
No. 2.	10 ft.	18 in.	9 in.	70 gals.	11.25
No. 2.	12 ft.	18 in.	9 in.	84 gals.	13.50
No. 2.	14 ft.	18 in.	9 in.	98 gals.	15.75
No. 3.	4 ft.	20 in.	10 in.	36 gals.	5.10
No. 3.	5 ft.	20 in.	10 in.	45 gals.	6.40
No. 3.	6 ft.	20 in.	10 in.	54 gals.	7.65
No. 3.	8 ft.	20 in.	10 in.	72 gals.	10.20
No. 3.	10 ft.	20 in.	10 in.	90 gals.	12.75
No. 3.	12 ft.	20 in.	10 in.	108 gals.	15.30
No. 3.	14 ft.	20 in.	10 in.	126 gals.	17.85

GALVANIZED WATERING TROUGHS

These troughs will not rust or corrode and will not damage by freezing.

Length.	Width.	Capacity.	Price.	Galvanized Hog Troughs
4 ft.	16 in.	24 gals.	\$5.00	Width, 10 in.;
6 ft.	16 in.	36 gals.	6.90	depth, 5 in.; and
8 ft.	16 in.	48 gals.	9.20	the lengths, 2, 3,
10 ft.	16 in.	60 gals.	11.50	4, 5, 6, 7, 8, 9, 10,
12 ft.	16 in.	72 gals.	13.80	and 12 feet. The
14 ft.	16 in.	84 gals.	16.10	capacity is 2 gal-
8 ft.	20 in.	80 gals.	10.40	lons per running
10 ft.	20 in.	100 gals.	13.00	foot.
12 ft.	20 in.	120 gals.	15.60	WITH ROLLED
14 ft.	20 in.	140 gals.	18.20	EDGE, PER FOOT,
16 ft.	20 in.	160 gals.	20.80	55c.



Iron Hog Troughs

No danger in winter for them to burst. Eleven inches wide at top, 2 inches wide at bottom and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs. Price, 45c. per foot.



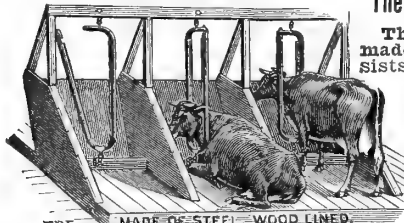
IRON POULTRY TROUGHS

Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

No.	Width Top.	Depth.	Length.	Weight.	Price.
1W	3 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	7 $\frac{1}{2}$ in.	3 lbs.	\$.25
5W	3 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	19 in.	6 $\frac{1}{2}$ lbs.	.40
6W	6 $\frac{1}{2}$ in.	2 $\frac{3}{4}$ in.	22 in.	12 lbs.	.80
9W	6 $\frac{1}{2}$ in.	2 $\frac{3}{4}$ in.	29 in.	18 lbs.	1.00

The 1W Trough is provided with a lid having three holes, from which chicks can eat the meal without wasting.

PATENTED AUG. 9th 1899.



The Taylor Steel Stanchion

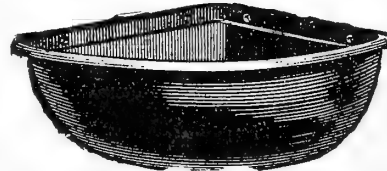
The strongest Stanchion made. Since the frame consists entirely of steel and malleable iron, it is practically indestructible and will last a lifetime.

Gives Free and Natural Movement of the Head and Neck. Swings on chains, top and bottom, and gives much more freedom to the cow's head than the old style stiff stanchion. Practically the cows are as comfortable as when in the field; for they are able to lick their sides and lie down with the head on the shoulder, as nature intended.

No Mortised Corners to Wear Loose. The corners are formed of solid angle steel, bent to shape, and are as strong, if not stronger, than the straight sides.

Not Cumbersome About Neck of Cattle. The angle steel used in the Taylor Stanchion, which is $1\frac{1}{4}$ by $1\frac{1}{4}$ inches wide, is less than one-fourth as large as the wood used in other stanchions.

Dimensions of Stall. For ordinary-sized cattle, give each a stall 3 feet wide by 4 feet 6 inches long floor space. Make gutter along rear of stall of sufficient depth to catch all droppings. A stall so constructed with the Taylor Stanchion insures a larger production of milk. Price, Style No. 1.....\$1.50.....Extra Heavy, No. 2.....\$2.00.

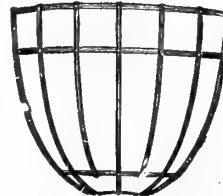


Corner Mangers

The "Sanitary." The rim is made of a superior quality of iron. The body of galvanized wrought steel. One of the best managers in use. The Government is using these "Sanitary" Managers in preference to any

other. No. 2—22 quarts. Retail, \$1.75.

Special Price in Quantities.



CAST-IRON CORNER MANAGERS.

No. 1—16 in. long, 16 in. wide, 9 $\frac{1}{2}$ in. deep, flat front. Price, \$1.35.

No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front. Price, \$1.50.

Special Prices in Quantities.

WROUGHT HAY RACKS

Far superior to cast-iron Racks, as frequently used.

Price.....\$1.75

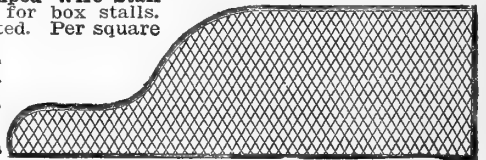
CRIMPED WIRE STALL GUARDS

2 $\frac{1}{4}$ -inch diamond mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes, bottom and end. 6 feet long, 25 inches high. Price, each, \$4.00.

Square Crimped Wire Stall Guards, used for box stalls. Give size wanted. Per square foot, 50c.

Square Crimped Wire Stall Guards, over 25 in. wide. Per sq. ft., 60c.

Special Prices in Quantities.

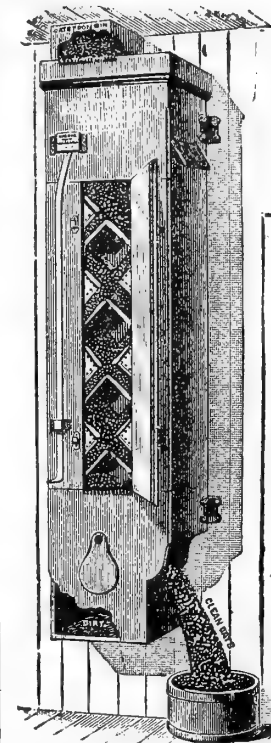


High Self-Acting Oats Cleaner

This cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every 25 to 30 bushels of cleaned oats; or, in other words, each horse chokes down 7 to 10 bushels of dust, dirt, etc., per year.

The dirt box is the base of the Cleaner, and may be emptied through a hand-hole in the bottom.

Price, \$13.00.



ROTO SALT FEEDER

Roto Salt Feeder consists of a cylindrical stoneware holder which holds the Roto Salt Cake in such a manner that while it is convenient for horses and cattle, cannot be wasted, and is the most sanitary, convenient, economical method of feeding salt. Roto Salt Cakes are made of pure refined salt. Very sanitary and easy to clean. Indorsed by veterinarians and stable men. Prices: Feeders, 25c. each. Salt Cakes, 25c. each.

Rock Salt and Ground Alum Salt. Prices on Application.

HAND-POWER HORSE CLIPPING AND SHEEP SHEARING MACHINES

Progressive, up-to-date farmers and horse owners everywhere recognize the advantage of clipping horses.

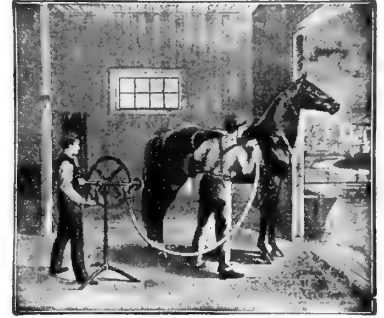
Stewart No. 1 Enclosed Type Ball-Bearing Clipping Machine

LATEST MODEL.

Has new style rigid base; tubular upright. All gears are cut from solid metal and are enclosed in a dust-proof metal box. They run constantly in a bath of oil, which reduces friction to a minimum. All wearing parts are hardened tool steel. New type, light, easy running, flexible shaft, 6 feet long. Complete, with one set of Stewart one-nut tension knives. Weight, boxed, 36 lbs. Price, each, \$7.50.

1902 CHICAGO CLIPPING MACHINE

STEWART PATENT. Has positive power; rigid base; fine, strong crank handle; 6 1/2-foot flexible steel shaft. All gears are cut from solid metal and wearing parts all tool steel, hardened. Can be turned with either right or left hand. Complete, with one set of Stewart's one-nut tension knives in case. Weight, boxed, 56 lbs. Price, each, \$10.75.



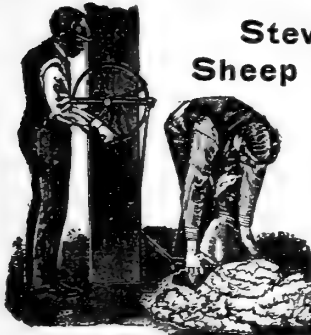
Shearing Sheep by machine is profitable and humane. It saves 1/2 to 2 lbs. wool on every sheep, and they are not cut or hacked. Experience is not required to operate the machine.

STEWART No. 8 ENCLOSED GEAR SHEEP SHEARING MACHINE

This Shearing Machine is built on the same lines as the Stewart No. 1 Horse Clipping Machine. The gearing is all of cut steel and is enclosed in a dust-proof metal case, where it runs constantly in oil, thus reducing friction and wear to a minimum. The solid jointed shaft, which is the only type of shaft suitable for sheep shearing, is fitted directly to the gearing. Each machine is supplied with the latest and most improved shearing handle and four knives. The machine turns easily, shears fast and gets more wool from a sheep than it is possible to get by hand shears. Weight, boxed, 40 lbs. Price, complete, with four sets of knives, \$9.75.

STEWART No. 6 COMBINED SHEEP SHEARING AND HORSE CLIPPING MACHINE.

Consists of the 1902 Chicago horse-clipping machine; complete with shearing attachment, with four cones and four cutters. Price\$18.25



Stewart New Model Sheep Shearing Machine

Has positive cut gear drive wheel, mounted on iron frame. The large gear engages the hardened tool steel pinion which connects with the universal joint flexible shaft having the balance tension knife and handle attached. All wearing parts are made from tool steel and hardened. Weight, 52 lbs.; boxed, 70 lbs. Complete with 4 combs and 4 cutters, each...\$12.75
Extra top plates50
Extra bottom plates.... .50

LIST OF PARTS OF NEW MODEL SHEAR.

200	Handle shell...	\$2.00
201	Leather guard...	.15
202	L'ther washer...	.10
203	Ferrule.....	.15
204	Long spindle...	1.00
205	Cogs.....	.40
206	Tension bolt...	.10
207	Tension nut...	.10
208	Eccentric roll...	.10
209	Yoke.....	.45
210	Lid.....	1.00
211	Washer.....	.05
212	Tension spring screw.....	.05
213	Lid screws....	.10
214	Yoke screws...	.05
215	Stud screws...	.10
216	Comb.....	.50
217	Cutter.....	.50
218	Tension spring...	.15
219	Short spindle...	.75
220	Lacing.....	.10

WILLIAMS' FEED BAG



ley attachments. Patent center grooved wood bottoms and leather ventilators. Our Special Price, \$1.00.

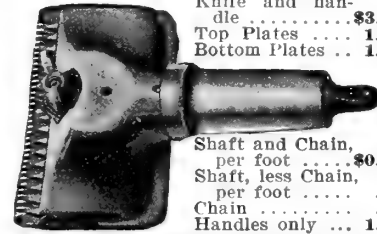
STEWART No. 8 COMBINED HORSE CLIPPING AND SHEEP SHEARING MACHINE.

Consisting of No. 8 enclosed gear sheep-shearing machine with complete horse clipper attachment. Price\$15.25
MACHINES FITTED WITH STEWART ONE-NUT TENSION KNIFE.

It is impossible for it to get out of adjustment.

PRICE OF PARTS.

Knife and handle\$3.50
Top Plates 1.00
Bottom Plates .. 1.50



Shaft and Chain, per foot\$0.75
Shaft, less Chain, per foot50
Chain30
Handles only ... 1.00



Automatic Shearing Knife Grinder.

Sharpens a sheep shearing knife in a few seconds good as new. No skill required; it is automatic. Weight, boxed, 36 lbs. Price, fitted for either horse clipper or sheep shearing knives, \$6.00. Fitted for both horse and sheep knives, \$6.50.

Stewart Improved Grinder Attachment



For Horse Clipping and Sheep Shearing Machine Knives.—May be put on Stewart No. 1 Horse Clipping or No. 8 Sheep Shearing Machine in place of the shaft in a few seconds. Grinds all horse and sheep knives equal to new in a moment's time. No experience required. You can soon save enough in postage and grinding charges to pay for one of them. Besides, you have the knives sharp and in cutting condition when you want them. No waits or breaks caused by carelessness or poor packing as when sending in the mail for grinding.

Light, Compact, Strong and Durable, and will wear for years. Illustration shows how it looks attached to machine, and how the knives are held during the grinding process. No delay on account of dull knives, if you have one of these grinders. Remember, it's suitable for both horse and sheep knives. Price, \$3.50.

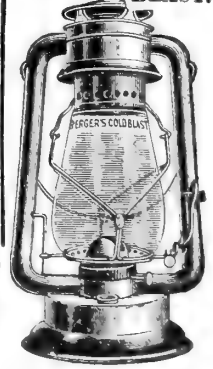
Tubular Lanterns

No. 2 COLD BLAST.

No. 0 SIDE LIFT. Patented one-piece crimped tubes. No. 1 burner, 5/8-inch wick, No. 0 globe, lock burner, simplicity side lift, retinned and tested founts. Especially designed for severe usage. Price, 60c.

No. 0 DASHBOARD. Furnished in bull's-eye globes. No. 1 burner, 5/8-inch wick, No. 0 globe. Price, \$1.00. Hood Reflector Dashboard Lantern. Price, \$1.50.

No. 2 STORM KING COLD BLAST LANTERNS. Clear, white, smokeless light, perfect combustion, fiercest gales cannot blow out, or "fiercest" roads jolt out. Price, \$1.00.



ADJUSTABLE STORM FRONT



Is strictly adjustable. One size will fit any piano-box buggy. One size fits all Phaetons, Stanhopes, etc.

The material is Calendered Rubber Cloth, strong and durable. The window is 12x20 inches, made of fine celluloid, as transparent as any window glass, which can be bent or rolled up without the least danger of breaking.

The line hole is 14 inches long, has a light metal edge, so the reins cannot tear out or sag the cloth. It has a broad flap that prevents the entrance of water, wind or snow.

BUGGY SIZE.

No. 12—Rex No. 4, Black Rubber, 28 oz. \$2.50
No. 11—Rex No. 5, Black Rubber, 22 oz. 2.25

The above are special as long as our present stock lasts. New stock will be much higher.

DIRECTIONS FOR ATTACHING STORM FRONTS TO VEHICLES.

Place the rod at the bottom of the storm front in the holes, so that when the rod rests on the dash feet immediately back of the dash the side arms of the storm front will pass under the front prop of the buggy top. The side arms must touch the bottom of the buggy prop, and the eye at the extreme end of the arms of the storm front must lack within 1 or 1½ inches from coming in contact with the buggy joint. After these instructions are carefully complied with, the rod at the bottom of the storm front is in the proper position.

After this is done, clamp the posts to the front of the body, pass the hood up over the top and adjust the hooks.

After this is completed, break the back long joint of the buggy top, hook the hooks that pass through the eyes of the arms of the storm front to front top joints, screw the thumb nut until they are firm, adjust the front so that it will stand perpendicular, straighten the back joints and storm front is ready for use.

DUST HOOD NO MEASURING REQUIRED.

This 1905 model will fit any buggy top from 36 to 44 inches wide, and it looks better than a made-to-order hood.

The objection to most hoods is the wrinkles and puckering. All this has been done away with.

No. 8—Rex No. 6, Black Rubber, 22 oz. \$1.25

HORSE COVERS



All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Four sizes: 5 feet and 5 feet 4 inches.

No. 73—Rex No. 202, Black Oiled Drill, to neck. \$2.60
No. 74—Rex No. 84, Brown Oiled Duck, to neck. 3.30
No. 76—Rex No. 88, Brown Oiled Duck, to head. 3.75
No. 71—Rex No. 190, Fleece Lined, to neck. 3.30
No. 72—Fleece Lined, Plaid Back, to head. 3.75

WASH APRON

This apron is made of heavy waterproof Duck, and is strictly waterproof; it is used by liverymen, butchers, laundries, creameries, packing-houses, etc.

Rex No. 163. \$1.25

KITCHEN APRON

Used by housewives when doing any ordinary work in the kitchen.

This Apron is water and grease proof, and protects the dress from water, grease, etc.

Size, 36x45 inches, complete with strings. Rex No. 105—Black Rubber, 75c.

Rex No. 106—White Rubber, \$1.25.

If wanted by mail add 15c. for postage.



Leggins

Our line of men's and boys' leggins is very complete, comprising all of the various kinds of material used for that purpose. Thoroughly well-made and perfectly shaped. Furnished in assorted sizes, 12 to 18, inclusive, unless otherwise specified.

Style No. 202—Assorted sizes, 12 to 18; material, brown duck. Price, each, 50c.

Style No. 206—Assorted sizes, 12 to 18; material, waterproof brown duck. Price, each, 60c.



ADJUSTABLE STORM APRONS

These Aprons are made of the best quality rubber cloth. They are fastened to the dash by two steel clamps shaped like clothespins. All Aprons, except No. 45, are 50 inches from dash to straps, and 72 inches from side to side. No. 45 is 50 inches from dash to strap, and 60 inches from side to side.

No. 59—Rex No. 53, Melodeon Rubber Cloth, 28 ounces. \$1.80
No. 57—Rex No. 54, Black Rubber Cloth, 28 ounces. 1.65
No. 56—Rex No. 55, Black Rubber Cloth, 22 ounces. 1.40
No. 52—Rex No. 45, Black Rubber Cloth, 22 ounces. 1.30

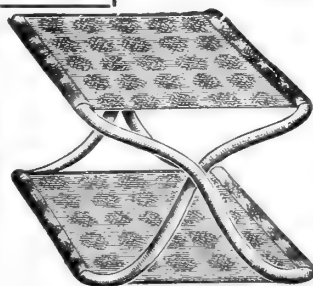


(Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies.

The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use SO-BOS-SO (Kilfly). Spray your poultry-house with SO-BOS-SO (Kilfly). It kills lice or any vermin that may infect the fowls. Put up in one-gallon cans. Price, 75c. per gallon.

For a fuller description of So-Bos-So, see page 77.

New I. D. Seat

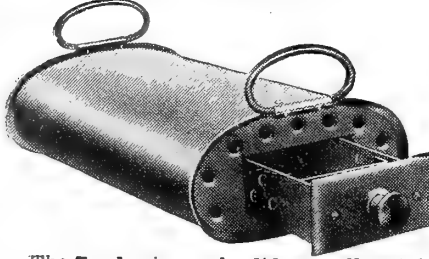


When used as a third seat in a vehicle. Lower Carpet rests on and locks firmly with cloth of cushion, thus preventing motion and friction. Will carry 500 pounds.

Finished with Two Carpets; used in the house, it makes a neat hassock or footrest. The frame cannot cut down into the cushion to ruin the cloth and springs.

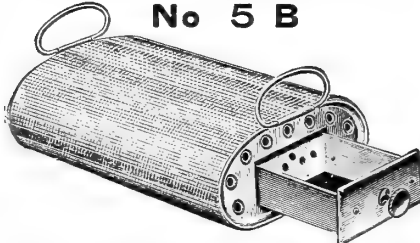
Price, \$1.00.

Clark's Carriage Heaters THE LEADER



The **Leader** is a splendid new all-metal heater that always gives satisfaction. This new heater is made entirely of metal; is strong and durable; cannot be bent or broken; oval pattern, 12 inches long; weight, 4 lbs. Price, **\$1.00**.

No 5 B



Strong, Ornamental, Convenient. Cannot Be Crushed or Bent.

No. 5 B—Clark Heater, 12 inches long, otherwise same as the 3 D, except carpet is not braid-bound. Weight, 4 lbs. Price, **\$1.50**.

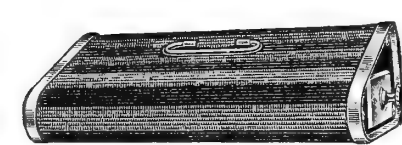
No. 5—12 inches long, white metal ends, not covered, **\$1.25**.

No. 3 D

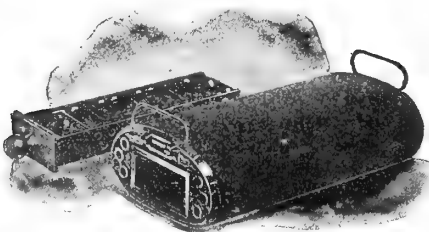


No. 3 D—Clark Heater, 14 inches long, sheet metal case, stamped white metal ends, covering of braid-bound Brussels carpet. Weight, 7 lbs. Price, **\$2.00**.

No. 7 D

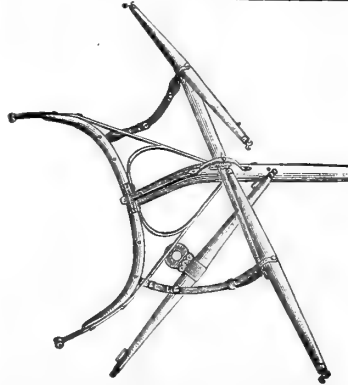
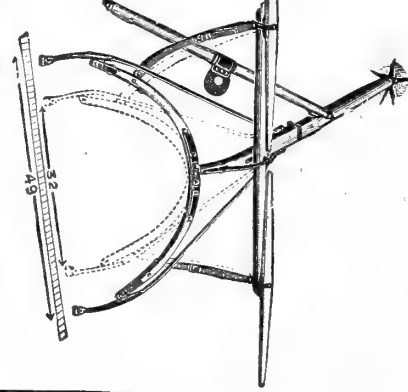


No. 7 D—Clark Heater, 14 inches long, nickel-plated steel ends, heavily re-enforced, covered with Brussels carpet, slanting top, adjustable side and end ventilators. Can be regulated so as to increase or diminish the heat or entirely stop combustion and save coal for future use. Weight, 7 lbs. Price, **\$2.25**.



No. 1 PATENTED SHIFTING OR ADJUSTABLE POLE

Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. Ironed, complete, painted. List, **\$16.00**. Our Special Price, **\$10.00**.



"BALTIMORE" IRONED CARRIAGE POLE

Is well ironed with wrought iron tees; double or single hammer strap; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check straps. Ironed, complete, painted. List, **\$11.00**. Our Special Price, **\$6.50**. Dayton Pole, List, **\$12.00**. Our Special Price, **\$7.00**.

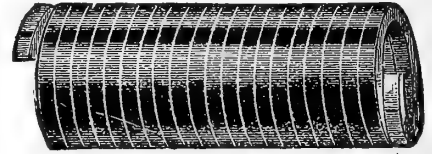
Shafts



No. 1

No. 1—Clark Heater, 14 inches long, ends of heavy cast metal, nicely polished and nickel-plated. Is made extra strong and heavy and cannot be crushed or even bent. It is covered with royal velvet carpet, underneath which is a special asbestos packing, which makes scorching of carpet impossible. Weight, about 10 lbs. Price, **\$3.00**.

Coil Axle Washers



100 Washers in a Box.
¾-inch, per box, List Price, **30c.**; Our Special Price, **20c.** 1-inch, per box, List Price, **32c.**; Our Special Price, **20c.**

Solid Cut Axle Washers

	List Price.	Our Special Price.
5 Sets in a Box.		
¾ inch, per box.....	\$0.34	\$0.20
7/8 inch, per box.....	.38	.25
1 inch, per box.....	.44	.30
1 1/8 inches, per box.....	.50	.30
1 1/4 inches, per box.....	.56	.35

Star Quick-Shift Shaft Coupler and Anti-Rattler



List Price, **\$4.00** per doz. pair. Our Special Price, **\$2.50** per pair.

Simplest, safest, strongest and easiest to change Coupler made, and the only absolutely safe one. Its fewer parts and operations enables us to sell it cheap.

No riveted or other joints to open, wear or break; no malleable or cast parts; no chance of making it "let go" by accident; no wrench or other tool needed to make quick changes, and no trouble. Hundreds of thousands of them in use.

Hitching Post

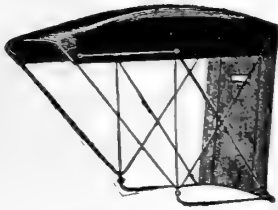
Cannot be broken or pulled out. Tubular steel, thoroughly painted. Anchored at top and ground level. Furnished with Weldless Steel Chain and Spring Snap complete. List Price, **\$4.50**. Our Special Price, **\$3.00**.



Cake of Prepared Coal

One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of one dozen cakes, **75c.** Per case of 100 bricks, **\$6.00**. **A B C COAL**—Per dozen, **60c.** **A B C**, case of 100 bricks, **\$4.80**.

BUGGY TOPS

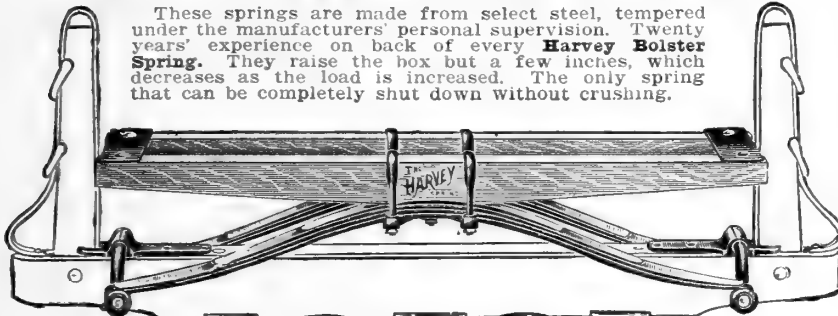


Drill Top, lined with nice union cloth. Tubular sockets and second-growth bows, wrought rail and joints, stitched front vallance, does not show nails or tacks. Will keep in shape. **Side Curtains** are included, making top complete. List, \$15.00. Retail, \$8.50.

Rubber Top, cloth lined, tubular sockets and second-growth bows, wrought rail and joints, stitched front vallance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$17.00. Retail, \$9.50.

HARVEY XXX BOLSTER SPRINGS

These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years' experience on back of every **Harvey Bolster Spring**. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.



Capy.	42 in.	44 in.	Capy.	42 in.	44 in.	Capy.	42 in.	44 in.
1000	\$7.50	\$8.00	3000	\$12.00	\$13.00	7000	\$19.00	\$20.00
1500	8.00	8.50	4000	13.00	14.00	8000	20.50	21.50
2000	10.00	11.00	5000	14.00	15.00	9000	22.00	23.00
2500	11.00	12.00	6000	17.50	18.50	10000	23.50	24.50

Less 30 per cent. retail from above prices.

HARVEY, JR., BOLSTER SPRINGS



For One-Horse Wagons Only.



SPECIAL

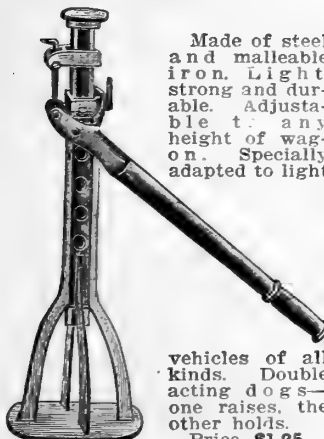
Closing Out Sale of
the Common Sense and North
Bolster Springs at 30 Per Cent. from Prices Named.

To carry 1000 lbs..Per set,	\$6.00	To carry 3000 lbs..Per set,	\$8.00
To carry 1500 lbs..Per set,	6.50	To carry 4000 lbs..Per set,	8.50
To carry 2000 lbs..Per set,	7.00	To carry 5000 lbs..Per set,	10.00
To carry 2500 lbs..Per set,	7.50	To carry 6000 lbs..Per set,	11.00

North Patent Adjustable Bolster Spring

Same Price as Common Sense Above.

EUREKA WAGON JACK



Made of steel and malleable iron. Light, strong and durable. Adjustable to any height of wagon. Specially adapted to light

vehicles of all kinds. Double acting dogs—one raises, the other holds. Price, \$1.25.

Improved Sampson Jack

Malleable Iron.

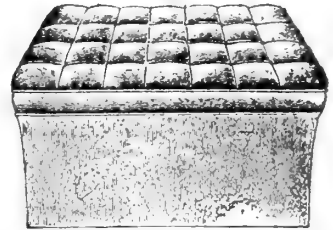
Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.
No. 1—Will raise vehicles weighing 2 tons.... \$2.50
No. 2—Will raise vehicles weighing 5 tons.... \$3.25
No. 2—Will raise vehicles weighing 5 tons, with drop hook..... \$3.50
Can also furnish other Jacks. Prices on application.



No. 1—Adapted for buggies or light work. Capacity, 2000 lbs. \$1.00.
No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs. \$1.25.
No. 3—\$1.75.
We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, 50c.

Corded Top Cushion

WITH FALL.



NICELY MADE.—In ordering Cushions, give size of bottom of seat inside, size of fall at top and bottom, and depth from top of sill, or enclose paper pattern.

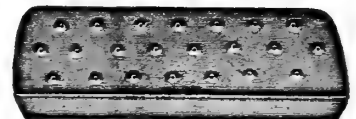
Union Cloth—List, \$4.00. Retail, \$2.50.
Rubber Drill—List, \$4.50. Retail, \$2.75.
Imitation Leather—List, \$6.00. Retail, \$3.75.

BUGGY BACK

In ordering Backs, give exact measurement of seat at top of rim, from out to out; or, if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

Fnameled Drill—List, \$5.00. Retail, \$3.00.
Heavy Rubber—List, \$6.00. Retail, \$3.50.

Wagon Cushion

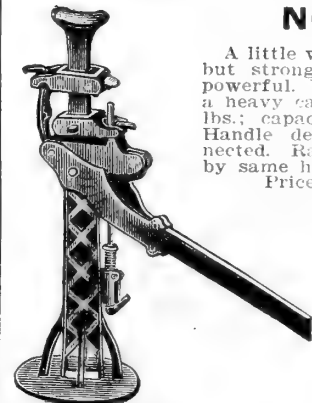


Black Enameled Drill, 20 to 34 inches long, stitched edge. List, \$1.30. Retail, 85c.
Black Enameled Drill, corded edge. List, \$2.00. Retail, \$1.50.

WHEELS FINISHED.

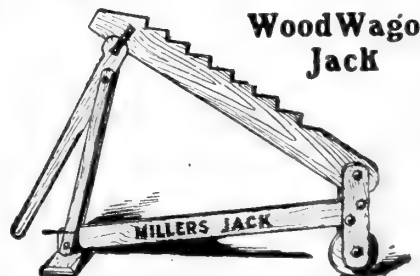
Buggy, per set..List, \$22.00 Retail, \$15.00
Dayton, per set..List, 26.00 Retail, 18.00

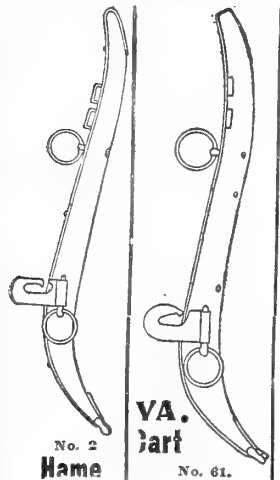
EUREKA AUTO JACK NO. 1



A little wonder. Light, but strong. Small, but powerful. Will easily lift a heavy car. Weight, 4 lbs.; capacity, 2000 lbs. Handle detachably connected. Raises or lowers by same handle. Price, \$1.25.

Wood Wagon Jack



No. 2
Hame

No. 61.

No. 15.

DODSON'S IMPROVED FLAT LINK STEEL HAME CHAINS.



Fits all work Hames. Perfect in construction and operation. Can be fastened in half the time required to fasten a hame strap.

Snap into off hame loop, hook into right hame loop and pull up same as leather strap. Put finger in ring and pull up tight. 25c.

No. 2 HAME.
¾-inch steel backs. Two top strap loops. One stud line ring. Single steel hooks and rings. Varnished. Size, 19 to 20 inches. Price, 40c. pair.

No. 1 HAME.

Same as No. 2, except it has 3 top strap loops instead of 2, as above. Price, 50c. pair.

X. C. No. 15 HAME.

Has hook in wood instead of clip, as shown in cut. Rock elm wood. ¾-inch steel backs. Three top strap loops. Two stud line rings. Clip staples and hold-backs. Double steel hooks and rings. X. C. ball, painted red. Size, 19 to 21 inches. Price, 75c. pair.

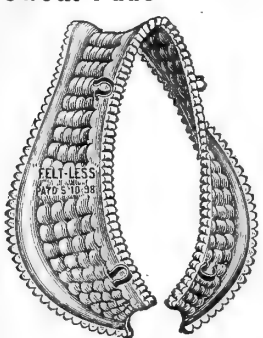
FOLDED DUCK BACK BANDS.



42, 44 and 46 in. \$0.50
48 in.60

Boss Back Band Hooks.
Per pair, 3½ in. \$0.10
Per pair, 4 in.12

Sweat Pads—Feltless



Pinked, Felt Edges, Composite Filling, Four Hooks. Old Gold Drill; best on the market. 50c. Cheaper Old Gold, 40c.

BROWN AND WHITE DRILL PADS.

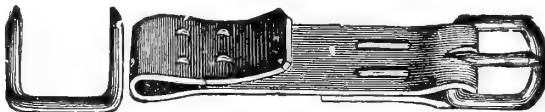
10-inch.... 25c. 12-inch.... 30c.

WEB BACK BANDS.

No. 1—3½-in., 42-in. long.... \$0.20
No. 1—4 in., 42-in. long.... .25
No. 2—3½-in., 42-in. long.... .15
No. 2—4 in., 42-in. long.... .20

HAME STRINGS. Black.
¾x42-inch slit, each.... \$0.10
¾x42-inch slit, each.... .12
Rawhide.
¾x42-inch slit, each.... .10

RAPID HARNESS MENDER.



Patented—February 2, 1886; March 27, 1888.
100 to the box. Price, 10c. per 100; by mail, 15c.

TRIUMPH CHAINS.—Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pattern), each, 35c. 4-0.. \$0.40
No. 3-0—4½-ft. Triumph Halter, each, 35c. 6-ft..... .40
No. 1—20-ft. Triumph Tethering Chain, each..... .95
No. 0—20-ft. Triumph Tethering Chain, heavy, each..... 1.10
No. 0—30-ft. Triumph Tethering Chain, each..... 1.30

BREAST CHAINS.

26-inch—5-16-in. iron, double twist, tapered, stiff, pair.... \$1.25
26-inch—¾-in. iron, double twist, not tapered, stiff, pair.... 1.00
27-inch—Double slack, twist, pair..... .50
26-inch—12-2, single slack, pair..... .50
No. 46—Cart Tug Chains, 18-10-1, per pair..... .30
No. 67—**FIFTH CHAIN.**—Round hook, ring and swivel, bright or black, made with stretchers also if desired. 10x¾, with Reg. Hook, per lb., 9c.

VA. CART No. 61.
Rock elm or ash wood. ½-inch stiff-bottom loops. ¾x¼-in. steel backs. Three mortise top loops. Heavy wrought steel hooks. Varnished. Polished irons. Size, 19 to 22 inches. Price, 10c. pair.

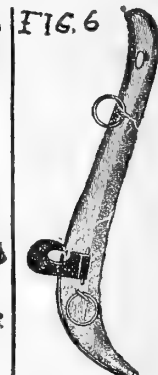
QUEEN CITY HAME.
Pat. adjustable malleable draft hook. Rock Elm. 19 to 21 inches. Pair, 60c.

MOCKS STEEL HAME.

FIG. 4.
Rust-proof, electro-galvanized. Non-breakable. For heavy work, such as contractors, lumbermen, etc. Price, 19 to 21 inches, per pair, \$1.00; 22 to 24 inches, per pair, \$1.10.

ROOT AND SAWED HAMES.

FIG. 5.
Per Pair.
Loudon Patent.. \$1.00
Loudon Tic..... .75
Taylor Root Pat. .60
Taylor Root Tie. .50
Special prices to both wholesale and retail dealers.

Mocks
SteelRoot and
SawedBaltimore
Strap

BALTIMORE STRAP HAME.

FIG. 6.

¾x7-32-inch flat steel, selected second growth, air seasoned timber, extra wide woods, superior finish, hand forged, extra heavy steel hook, double weight, wrought steel breast ring in separate staple, painted red with japanned trimmings, loose bottom loop, 17 to 24 inches. Per pair, \$1.00.

DUMP CART HARNESS



No. A.—DUMP CART HARNESS.

Bridle, ¾-inch; lines, ¾ inch; breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 iron-bound hames; ¾-inch hame straps; tug chains; Kip team collar. Price, without lines, \$11.50; with lines, \$13.00.

No. 8.—DUMP CART HARNESS.

Bridle, No. 218, with winker stays; hames, No. 61, Virginia Hook, with straps; collar, all Kip team; saddle, No. 8, doubled and stitched top, full pad, leather girth; breeching, No. 5, 3-inch double body; 1½-inch turnback; 1½-inch double hip straps. Price, without lines, \$16.60; with lines, \$18.25.
Prices on Cheap Cart Harness on Application.

BROWN STEEL COW TIES AND HALTER CHAINS.

No. 3-0—Brown Steel Cow Ties (Ohio pattern), each.... \$0.25
No. 4-0—Brown Steel Cow Ties (Ohio pattern), each.... .30
No. 3-0—Brown Steel Halter Chains, 4½ feet..... .25

SPREADER AND LOG CHAINS.

Straight Link Slack Spreader Chain, 5-16, \$1.50. ¾..... \$1.75
¾ Close Link Straight Spreader Chain, for two horses, with three hooks, each..... 2.50
Chain Repair Links, ¼ or 10-2, doz., 15c. 9-32 or 10-1, doz. .20
Open Side Lap Links, polished, ½x2½, each, 8c. ¾x½, ea. .10
Open Side Lap Links, polished, ¾x3, each..... .12
Open Side Rings, ¾x2½, 6c. ½x2½, 8c. ¾x3..... .10
List Price. Retail.
Long Link Log or Ox Chain, ¾ in., 12 or 14 ft.. \$0.15½ lb. \$0.08
Long Link Log or Ox Chain, ½ in., 12 or 14 ft.. .14½ lb. .08
Long Link Log or Ox Chain, ¾ in., 12 or 14 ft.. .14 lb. .07

REGULAR IRON TRACE CHAINS.

6½-10-3, List Price, \$1.00 pair.	Retail Price, \$0.40 pair.
7 - 8-2, List Price, 1.06 pair.	Retail Price. .45 pair.
7 -10-2, List Price, 1.23 pair.	Retail Price. .50 pair.
7 -12-2, List Price, 1.45 pair.	Retail Price. .60 pair.
7 -14-2, List Price, 1.75 pair.	Retail Price. .70 pair.
7 -16-2, List Price, 2.15 pair.	Retail Price. .80 pair.

CARRIAGE AND WAGON HARNESS

No. 700—SINGLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 inch; Saddle, 2 $\frac{1}{2}$ inches; Breast Collar and Breeching, single leather; Flat Lines, with Web-Hand parts; X-C Mounting. Price, with Collar and Hames, \$8.00; with Breast Collar, \$7.50.

No. 603—SINGLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 $\frac{1}{4}$ inches; Saddle, 3 inches; with Nickel Hook and Terrets; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$11.00; with Breast Collar, \$10.50.

No. 4—SINGLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 $\frac{1}{4}$ inches; Saddle, 3 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting, with Nickel Hook and Terrets; imitation Hand Stitched. Price, with Collar and Hames, \$12.00; with Breast Collar, \$11.25.

No. A—HAND-MADE SINGLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 $\frac{1}{4}$ inches; Saddle, 3 inches; Hand Laced, Leather Lined; Breast Collar, 2 $\frac{1}{2}$ inches, V-shape, with 1 $\frac{1}{4}$ inches Single Leather Traces attached; Breeching, 1 $\frac{1}{2}$ inches Single Leather; Flat Lines; full Nickel or imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, \$18.00; with Breast Collar, \$16.25.

No. 29—DOUBLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 inch; fancy bound Pads; 1 $\frac{1}{4}$ inches side pieces and folded Bellybands; Turnback, $\frac{3}{4}$ inch; Hip Strap, $\frac{5}{8}$ inch, with patent leather Drops; Flat Lines; Sheep Collars; X-C Mounting. Price, \$19.00.

No. 19—DOUBLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; imitation Chain Front; Traces, 1 $\frac{1}{4}$ inches; fancy bound Pads under same; 1 $\frac{1}{4}$ inches side pieces and folded Bellybands; Turnback, $\frac{3}{4}$ inch; no Hip Strap; Flat Lines; Kip Collars, full Nickel or imitation Rubber Mountings; imitation Hand Stitched. Price, \$26.00.

No. 25—DOUBLE BUGGY HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 $\frac{1}{4}$ inches; Plain Pads, with leather Housings under same; 1 $\frac{1}{4}$ inches side pieces; folded Bellybands; Turnback, $\frac{3}{4}$ inch, waved; Flat Lines; Kip Collars; Nickel or imitation Rubber Mounting; imitation Hand Stitched; nicely finished. Price, \$29.50.

No. 93—SINGLE CARRIAGE HARNESS.—Bridle, $\frac{5}{8}$ inch; Traces, 1 $\frac{1}{4}$ inches; Saddle, 3 $\frac{1}{2}$ inches; Breast Collar and Breeching, folded with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$13.50.

No. 94—SINGLE CARRIAGE HARNESS.—Bridle, $\frac{5}{8}$ inch, Chain Front; Traces, 1 $\frac{1}{4}$ inches; Saddle, 4 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; Nickel Hook and Terrets, and balance of Mounting X-C; imitation Hand Stitched. Price, with Split Kip, Plain Front Collar and Hames, \$16.25.

No. 354—SINGLE CARRIAGE HARNESS.—Bridle, $\frac{5}{8}$ -inch Front; Traces, 1 $\frac{1}{4}$ inches; Saddle, 3 inches; Hand Laced, Leather Lined; Breast Collar and Breeching, folded, with wave lay; Flat Lines; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$16.50; with Breast Collar, \$14.75.

No. 20—EXPRESS HARNESS.—Bridle, $\frac{3}{4}$ inch; Traces, 1 $\frac{1}{2}$ inches; to buckle to Hames or with Heel Chains and attached to Hames; Saddle, 4 $\frac{1}{2}$ inches, with Kersey Lining; folded Breeching, with straight lay; double Hip Straps; Brass or Nickel Mounting; imitation Hand Stitched. Price, \$21.00.

No. 27—EXPRESS HARNESS.—Bridle, $\frac{3}{4}$ inch; Traces, 1 $\frac{1}{4}$ inches; Saddle, 4 inches; red wood Hames, with X-C Ball Top; folding Breeching, with straight lay; double Hip Straps; X-C Mounting. Price, \$15.75.

No. 26—EXPRESS HARNESS.—Bridle, $\frac{3}{4}$ inch; Traces, 1 $\frac{1}{4}$ inches, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; red wood Hames, with Brass Ball Top; folded Breeching, with straight lay; double Hip Straps; Brass Mounting; imitation Hand Stitched. Price, \$9.00.

No. 10 $\frac{1}{2}$ —DOUBLE WAGON HARNESS.—Bridle, $\frac{5}{8}$ inch; Harness Leather Winkers; Ball Top Hames; 1 $\frac{1}{2}$ -inch Traces, riveted to Hames, with Chain Ends; folded Pad and Breeching; $\frac{3}{4}$ -inch Double Hip Strap; Hog Collars; Flat Lines. Price, \$22.75.

No. 9—DOUBLE WAGON HARNESS.—Bridle, $\frac{3}{4}$ inch; Patent Leather Winkers; Ball Top Hames; 1 $\frac{1}{2}$ -inch Traces, riveted to Hames, with Chain Ends; folded Pads and Breeching; $\frac{7}{8}$ -inch Double Hip Strap; Kip Collars; Flat Lines; imitation Hand Stitched. Price, \$31.25.

No. 17—HEAVY DOUBLE WAGON HARNESS.—Bridle, $\frac{3}{4}$ inch; Patent Leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2-inch Traces, riveted to Hames, with Chain Ends; Heavy Pads and Breeching; 1-inch Double Hip Strap; Kip Collar; Flat Lines; imitation Hand Stitched. Price, \$37.50.

HORSEBACK GOODS ON APPLICATION.

HORSE COLLARS.

No. 75—DRAFT.—Split Leather Rim and Back; Blacked Tick Face; Patent Fasteners, \$1.25.

No. 85—DRAFT.—Black Split Leather Rim and Back; Sheep Face; Patent Fasteners, \$1.60.

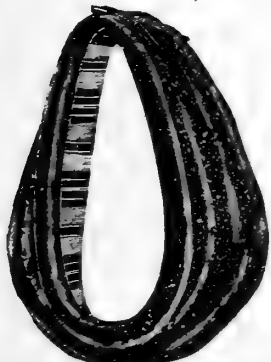
No. 17—TEAM.—Black Split Leather Rim and Back; Tick Face, extra lined, all hand-sewed, with Leather Thong; Patent Fasteners, \$1.85.

No. 571—TEAM.—Hand-sewed, with Leather Thong; Black Split, Russet Sheep Face; Patent Fasteners, \$2.25.

No. 155—SCOTCH.—Kip Rim and Back; extra lined Tick Face, all hand-sewed with Thong; Patent Fasteners, \$2.75.

No. 1—CANAL.—All Kip, Russet Face, hand-sewed, with heavy Thongs; Patent Fasteners, \$3.25.

No. 52—BUGGY.—All Kip, Blacked, 2 Buckles, \$1.75.



The Horse Collar That's Hameless and Padless



We want every farmer and teamster who has suffered annoyance, inconvenience and loss from the use of horse collars which cause sore shoulders on his horses to write us.

We want to send him our booklet of testimonials proving that our Hameless Adjustable Horse Collars not only prevent, but will cure, while working, the sores on shoulders and necks of horses.

They prove that ours is the ideal Horse Collar in all climates, and under all conditions.

They are cheaper because they don't wear out, and because there are no hames or sweat pads to buy.

They are better because they are lighter and stronger.

They save time whenever the team is hooked up or unharnessed.

They are easily and quickly attached to any style of harness.

No farmer or teamster can afford to now use the old style collars with its drawing, rolling, puckering, pinching motion, which rubs the flesh into sores.

It's economy, it's convenience, it's horse comfort to use a hard, perfectly adjusted and fitted metal collar.

Read what Hon. L. W. Watkins, Farm Machinery Expert of the Michigan State Board of Agriculture, says about them:

"My attention was first called to the Adjustable Hameless Collar by Hon. Chas. A. Waldron, V. S., of Tecumseh, Mich., member of the State Examining Board.

"I procured two sets of these collars from the manufacturers at Caro, Mich., and have used them two full seasons in the heaviest farm work—such as on corn harvesters, plowing with Great Western gang plows, largest size manure spreaders, etc., and I believe them as near perfect as can be. They are smooth and firm, with no twisting or leverage of hames, and are perfectly adjustable. I have discarded all other collars from my team harnesses, and use no other. I am not an agent and am in no way interested in the sales. Without being asked to do so I send this deserved testimonial of their usefulness for the benefit of my friends."

Write today for catalogue and prices. Don't wait till the rush of spring work comes on. Agents and dealers make good money selling these collars—Free territory.

16-inch Collar.....	Price, Any Size, \$6.00.
18-inch Collar.....	
20-inch Collar.....	
22-inch Collar.....	

Any size adjustable to 1 $\frac{1}{2}$ inches longer.

LANE FORD COTTON DUCK HORSE COLLARS.

No Pads Needed. Endorsed by Farmers and Stock Growers.

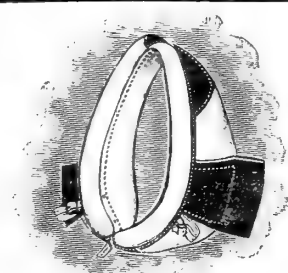
Designed for heavy drays, wagon and general farm use. Guaranteed to cure Galls and Sore Shoulders. Prevents Sweeney, Balk and Tender Shoulders in young stock.

A collar and pad combined. Built on strictly hygienic principles. They start cleaner and stay clean longer than similar goods. With care it should last two or three years. Filled with cotton fibre and oiled sufficient to give the fibre life and prevent packing and caking.

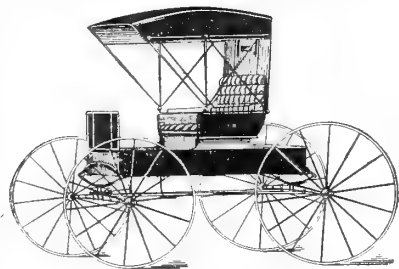
Made of Heavy Duck, with leather bearings, open at bottom and rolls back and forth as the load comes on and off, utterly banishing the friction unavoidable in a top opening collar.

Cannot sweeney a horse or colt with this collar.

Prices: Heavy Dray Collar, \$1.50; Wagon and Plow Collar, \$1.25; Junior Collar, \$1.00; Buckeye Wagon and Plow Collar, \$1.25.



YALE AND REX BUGGIES



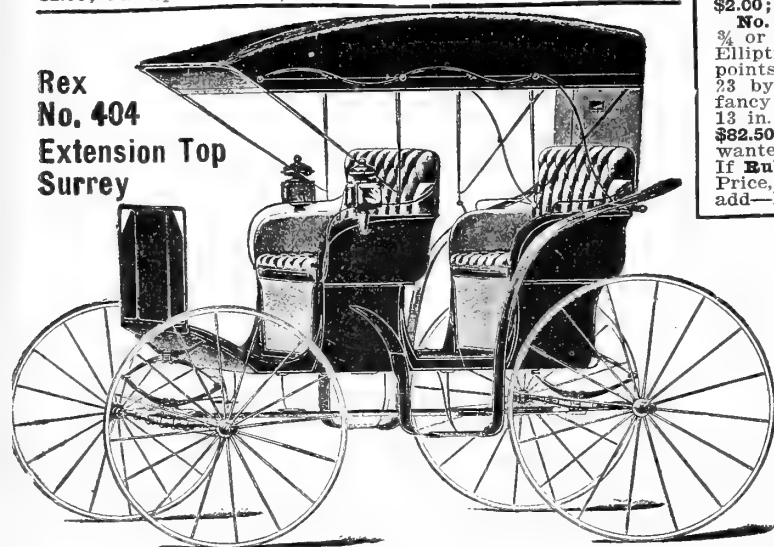
These Axles furnished on Yale and Rex Buggies, Surreys and Driving Wagons. Call and examine.

Write For Special Printed Matter.

No. 123—This is our **YALE** or Best Grade Buggy.—**WHEELS**, $\frac{3}{4}$ or $\frac{1}{2}$ in. Sarven, 40-44 in. high, screwed rims, coach felloe plates, 15-16 in. axle. **BODY**, 20, 22 or 24 by 56 in. **SEAT**, regular buggy style; top, 28x17 in., back 22 in. **TRIMMING**, No. 1 machine buffed leather or 16 oz.; all wool body cloth; spring cushion and back, hairtop. **DASH**, 13 in. high, padded and braced. **CARPET**, full length velvet. **BOOT**, factory flexible pattern. Buggy with leather quarter top—List Price, \$144.00; Our Special Price, \$85.00. Buggy with leather top and rubber sides—List Price, \$151.50; Our Special Price, \$91.00. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$28.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25. If leather strap boot over regular is wanted add—List Price, \$2.50; Our Special Price, \$1.50. If **Bradley or Standard couplers** instead of regular are wanted add—List Price, \$2.00; Our Special Price, \$1.25. If leather covered bows are wanted add—List Price, \$5.00; Our Special Price, \$3.00.

No. 801—**BUGGY**—**REX GRADE**.—**WHEELS**, $\frac{3}{4}$ in. Sarven, 39-43 in. high, 15-16 in. Axles. **SHAFTS**, XX hickory, trimmed with 24 in. leather points; flat leathers; wire anti-rattlers. **BODY**, 23x56 in., with corner irons. **SEAT**, regular buggy style. **TRIMMING**, genuine leather in cushion and back; imitation leather fall and seat ends. **DASH**, four bar, 13 in. high. **CARPET**, full length; jute, reversible. Buggy with leather quarter top—List Price, \$101.00; Our Special Price, \$60.00. Buggy with leather top and drill curtains—List Price, \$107.00; Our Special Price, \$65.00. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

Rex
No. 404
Extension Top
Surrey

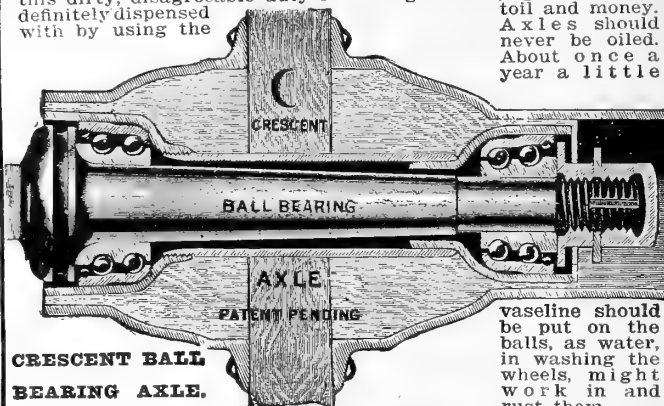


No. 404—**REX GRADE SURREY**.—**WHEELS**, $\frac{3}{4}$ or 1 in. tread, with 24 in. point leathers; Rex patent shaft brace. **AXLE**, 1 $\frac{1}{2}$ in. **BODY**, 26 in. wide by 74 in. long; iron rocker plates, running full length of sills. **SEAT**, 34x18 in. **Backs**, 24 in. high. **TRIMMING**, genuine fancy trimming leathers, in cushion and backs; artificial leather falls and seat ends. Blue or green cloth trimming when specified; open spring cushions and spring backs. **DASH**, good style. **CARPET**, full length, round wire; full fenders and oil burning lamps. Top with leather quarter and stays, heavy rubber roof and back curtain, drill side curtains—List Price, \$181.00; Our Special Price, \$104.00. If **Ball-Bearing Axle** is wanted add—List Price, \$24.00; Our Special Price, \$15.00. If **Rubber Tire** is wanted add—List Price, \$30.00; Our Special Price, \$19.00. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

ALL OF THE ABOVE YALE AND REX BUGGIES CAN BE EQUIPPED WITH BALL-BEARING AXLES WHEN SO ORDERED.

Why Grease a Buggy when this dirty, disagreeable duty is definitely dispensed with by using the

Saves draft, drudgery, garments, grease, time, toil and money. Axles should never be oiled. About once a year a little



CRESCENT BALL BEARING AXLE.

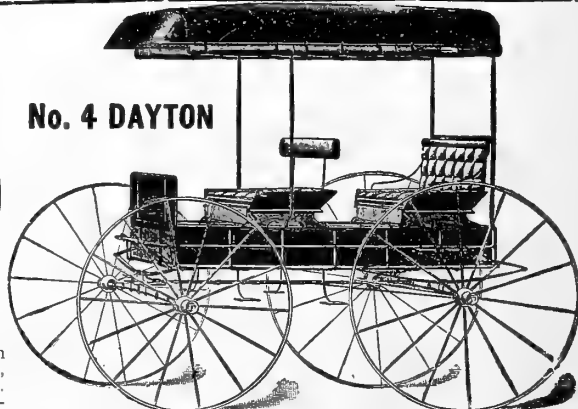
vaseline should be put on the balls, as water, in washing the wheels, might work in and rust them.

No. 524—**REX BUGGY** or Our Standard Grade.—**WHEELS**, $\frac{3}{4}$ or $\frac{1}{2}$ in. Sarven, 39-43 in. high, 15-16 in. Axle. **SHAFTS**, selected hickory. **BODY**, 19, 21 or 23 in. by 56 in. **TRIMMING**, heavy body cloth or genuine fancy trimming leather. **DASH**, 13 in. high. **BOOT**, Enamel drill with fibre top. **CARPET**, full length cut and uncut. Buggy with leather quarter top—List Price, \$106.00; Our Special Price, \$63.00. Buggy with leather top and rubber sides—List Price, \$112.00; Our Special Price, \$67.50. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25. If leather covered bows are wanted add—List Price, \$5.00; Our Special Price, \$3.00.

No. 862—**REX GRADE ROAD WAGON**.—**WHEELS**, Sarven, $\frac{3}{4}$ or $\frac{1}{2}$ in. tread; 39-43 in. high, 15-16 in. Axles, 3 and 4 plate Elliptic Springs. **SHAFTS**, hickory, trimmed with 24 in. imitation leathers; easy, quick shifting shaft couplers. **BODY**, 19 or 24 in. wide, corning style. **SEAT**, buggy style "A." **TRIMMING**, imitation or genuine leather; when genuine leather is used, the fall and seat ends are trimmed in imitation. Springs in cushion and back. **DASH**, 13 in. high, curved. **CARPET**, half length, good quality. List Price, \$75.00; Our Special Price, \$45.00. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

No. 804—**REX GRADE ROAD WAGON**.—**WHEELS**, Sarven, $\frac{3}{4}$ or $\frac{1}{2}$ in. tread; 39-43 in. high, 15-16 in. Axle, three and four plate Elliptic Springs. **SHAFTS**, XX hickory, with 24 in. imitation points; easy, quick shifting shaft couplers. **BODY**, 19, 21 or 23 by 56 in. **SEAT**, Stick pattern, style "J." **TRIMMING**, fancy trimming leather, whip cord or heavy body cloth. **DASH**, 13 in. high. **CARPET**, full length, good quality. List Price, \$82.50; Our Special Price, \$49.50. If **Ball-Bearing Axle** is wanted add—List Price, \$22.00; Our Special Price, \$13.75. If **Rubber Tire** is wanted add—List Price, \$26.00; Our Special Price, \$16.25. If **Warner or Shell Band Wheels** are wanted add—List Price, \$2.00; Our Special Price, \$1.25.

No. 4 DAYTON

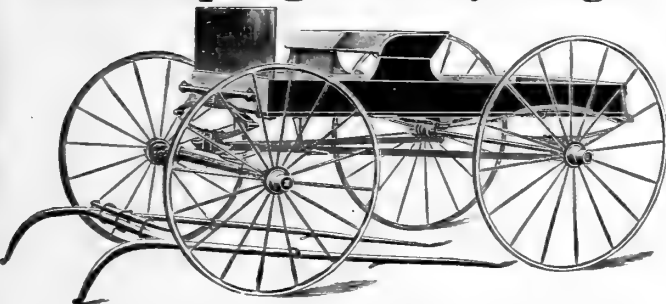


Length of body, 5 ft. 10 in.; width, 2 ft. 10 $\frac{1}{2}$ in.; frame and seats best white ash; panels best No. 1 poplar. **Wheels**, 3 ft. 9 in. and 3 ft. 5 in. high; 1 1-16 spoke; Warner or Shell band; 1x $\frac{1}{4}$ in. steel tire; 1 1-16-in steel axle; front spring, 1 $\frac{1}{2}$ in., 4-ply; two back springs, 1 $\frac{1}{4}$ in., 4-ply, oil tempered. Gear, best white hickory. Cushions trimmed either in leather or cloth; curtains, 24 oz.; green back, gum. Finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List.....\$120.00 Retail.....\$70.00
Can also furnish in duplex or side bar at same price.
SEND FOR ILLUSTRATED CATALOGUE FULLY DESCRIBING THESE BUGGIES.

Three Spring Delivery Wagon



Axle, 1½ in.; 1½ in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 1000 lbs. Price, without Top or Brake, List, **\$81.50**. Our Special Price, **\$47.50**.
 Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 600 to 800 lbs. Seat with cushion. Price, without Top or Brake, List, **\$77.00**. Our Special Price, **\$45.00**. All wheels dipped in boiling oil.
 Top extra for any of above. List, **\$44.00**. Our Special Price, **\$25.00**. Brake extra for any above. List, **\$5.00**. Our Special Price, **\$3.00**.

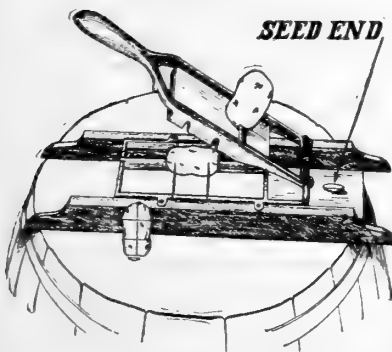
Duplex Spring Delivery Wagon

Similar to above, except it has a duplex spring gear.
 Axle, 1½ in.; 1½ in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs. Price, without Top or Brake, List, **\$77.00**. Our Special Price, **\$45.00**.
 Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion. Wheels dipped in boiling oil. Price, without Top or Brake, List, **\$73.00**. Our Special Price, **\$42.50**.
 Top extra for any of above. List, **\$44.00**. Our Special Price, **\$25.00**. Brake extra for any above. List, **\$5.00**. Our Special Price, **\$3.00**.
 Wheels, per set, List Price, **\$30.00**. Our Special Price, **\$20.00**.

AXLE GREASE AND OILS

G. & T., per box.....	\$0.06	Cup Grease or Hard Oil,	
G. & T., 10-lb buckets, ea.	.50	5-lb. can.....	.60
G. & T., 15-lb. pails, ea.	.70	Gasoline Engine Oil, per	
G. & T., 25-lb. pails, ea.	.90	gallon.....	.60
Mica, tin boxes, each.....	.08	Pure Neats Foot Oil, per	
Mica, 10-lb. pails, each.....	.75	quart.....	.40
Mica, 15-lb. pails, each.....	1.00	Pure Neats Foot Oil, per	
Mica, 25-lb. pails, each.....	1.25	gallon.....	1.00
POLARINE OIL , for all			
styles Water Cooled Autos.			
Perfect lubricator in any			
weather.			
Polarine Oil—1 gal.....	\$0.75	Perfection Separator Oil,	
Polarine Oil—5 gals.....	3.00	per gallon.....	.75
Special Price in barrel lots.		Perfection Separator Oil,	
Boston Coach Oil, per		per 5 gallons.....	2.50
gallon.....	\$0.75	Harvester Oil, per qt....	.20
Mineral Castor Oil, per		Harvester Oil, per ½ gal.	.30
gallon.....	.60	Harvester Oil, per gal....	.50
Eureka Harness Oil, per		Capitol Steam Cylinder	
gallon.....	.75	Oil, per gallon.....	.80
Eureka Belt Dressing, 1		Special Steam Cylinder	
lb.....	.20	Oil, per gallon.....	.60
Eureka Belt Dressing, 5		HOUSEHOLD LUBRICANT	
lbs.....	.80	OIL.	
Cup Grease or Hard Oil,		¼-pt. Tin Oilers, with	
3-lb. can.....	.40	spout.....	\$0.15
		½-pt. Tin Oilers, with	
		spout.....	.20

The Gem Seed Potato Cutter

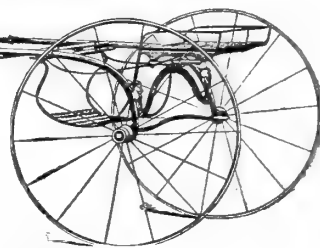


The construction of the Gem Seed Potato Cutter is very simple, and is built for accuracy as well as convenience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, making them easy to remove if necessary. It will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List Price, **\$4.00**. Our Special Price, **\$2.50**.

FARMERS'

Favorite Road Cart, No. 39

Sarven wheels, 1-in. axle, semi-elliptic springs; painted dark wine. List Price, **\$30.00**. Our Special Price, **\$18.00**.

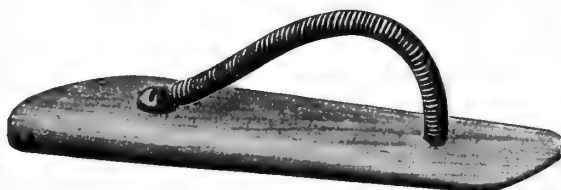


Same style Cart as above, but with body.
No. 45 Body Cart List Price, **\$40.00**. Our Special Price, **\$22.50**.

Carriage and Wagon Whips

No. 18—Black; plain; straight; Java; loop snap; 5½ feet. List Price, doz., **\$1.60**. Our Special Price, each, **10c**.
No. 23—Royal. Black; waterproof finish; two buttons; loop snap. List Price, doz., **\$2.50**. Our Special Price, each, **15c**.
No. 466—Java Cab. Linen color; oiled cover; plain through; 2½-ft. drop top; 2¾-ft. stock. List Price, doz., **\$2.50**. Our Special Price, each, **15c**.
No. 124—Bel Skin Rawhide, 6 feet. (A Whip to stand hard usage). List Price, doz., **\$4.50**. Our Special Price, each, **25c**.
No. 282—Coach, 5-ft. handle, plaited lash. List Price, doz., **\$5.60**. Our Special Price, each, **30c**.
No. 246—Magic or De Soto. Rawhide; black; rubber cap; 2-inch ring head button and 2½-inch ring thumb button; Philadelphia snap; 6 ft. List Price, doz., **\$8.50**. Our Special Price, each, **50c**.
No. 286—Brunswick. Extra rawhide; black; 3 feet; rubber lined; rubber cap; two buttons; English silk snap; 6 feet. List Price, doz., **\$13.00**. Our Special Price, each, **75c**.
No. 376—The Sirenia Whip. Black; two buttons. Far superior and tougher than whalebone or rawhide. The best dollar whip on the market. The cut represents this whip. List Price, doz., **\$18.00**. Our Special Price, each, **\$1.00**.
No. 1100—Holly handle, plaited, 5-ft. handle (extra fancy). List Price, doz., **\$20.00**. Our Special Price, each, **\$1.25**.

HANDY TRACE HOLDER



The handy Trace Holder is made from the highest grade of steel, very flexible, with steel point forced in the end of a spiral spring for the purpose of inserting the point in end of whiffletree.

Leather has been used on the sword-end whiffletrees for years. It has seemed as though no other device could fill this place. However, there has always been one great objection—the leather becomes softened, thus making it sometimes almost impossible to insert it.

These trace holders give a neat, graceful appearance and are very handy to operate. They are heavily Japanned. Put up in boxes of two dozen pairs. List Price, **\$1.50** dozen pairs. Special Price, **10c**. per pair.

BELL BOTTOM JACK SCREWS

These Jack Screws have cast-iron stands, with forged head screws. For workmanship and durability they cannot be excelled.

Diameter Screw	Height Stand	Height over all	List Price	Our Special Price
1½ in.	12 in.	15 in.	\$5.25	\$2.15
1½ in.	14 in.	17 in.	6.00	2.50
1½ in.	16 in.	19 in.	6.75	2.75
2 in.	10 in.	14 in.	6.75	2.75
2 in.	12 in.	16 in.	7.50	3.05
2 in.	14 in.	18 in.	8.25	3.35
2 in.	16 in.	20 in.	9.25	3.75

Capacity 1½-in. diameter screw, 10 tons.
 Capacity 2-in. diameter screw, 12 tons.
 Other sizes on application.



SPECIAL ONE-HORSE WAGON.

Either 1½ Solid Steel Axle or 1½ Tubular Axle; 1½x5-16-in. Tires, 3 ft. 2-in. front wheels, 3 feet 8-in. rear wheels; body, 9 feet long; 9-inch bottom side, 4-inch top side, 3 feet 6-inch wide; capacity, 1000 to 1200 lbs.; weight, 550 pounds.

Special One-Horse Wagon, without Brake. List, \$61.00. Retail, \$36.50.

Special One-Horse Wagon, complete with Gear Brake. List, \$67.00. Retail, \$40.25.

Special One-Horse Wagon, Gear only, without Brake. List, \$50.00. Retail, \$30.00.

Special One-Horse Wagon, Gear only, with Brake. List, \$56.50. Retail, \$34.00.

No. 40.—ONE-HORSE WAGON.

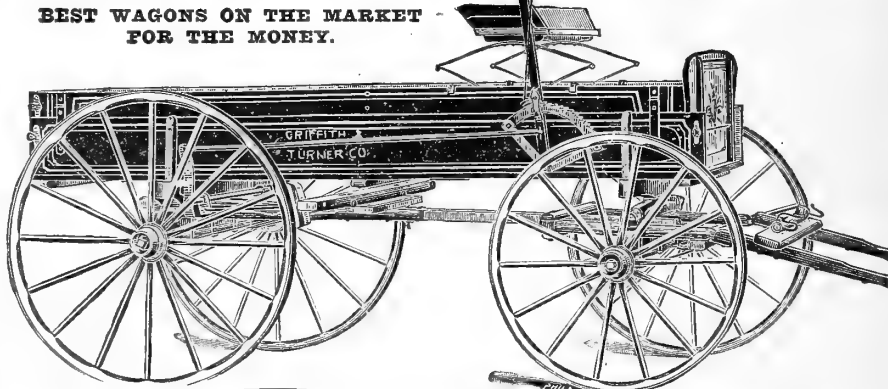
No. 40—Size Steel Axle, 1½; size Tubular Axle, 1½x6½; size Tire, 1½x5-16; capacity, 1500 to 1800 lbs.

Without Brake, List, \$71.50; Retail, \$43.00. With Gear Brake, List, \$77.50; Retail, \$46.50. Gear only, no Brake, List, \$64.00; Retail, \$38.50. Gear only, with Brake, List, \$70.50; Retail, \$42.50.

Special Discount for Cash.

Griffith & Turner One-Horse Wagons

**BEST WAGONS ON THE MARKET
FOR THE MONEY.**



G. & T. Solid Steel and

Tubular Steel Axle Two-Horse Wagons



These wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in Boiling Oil, and the round-edge tire is used for the protection of felloes and paint. This is one of the lightest running wagons made.

For tires wider than regular on Nos. 42, 44 and 46, add List, \$9.00; Retail, \$5.50, per inch, or fractional part thereof. On Nos. 48, 50 and 52, add List, \$11.00; Retail, \$6.50, per inch, or fractional part thereof.

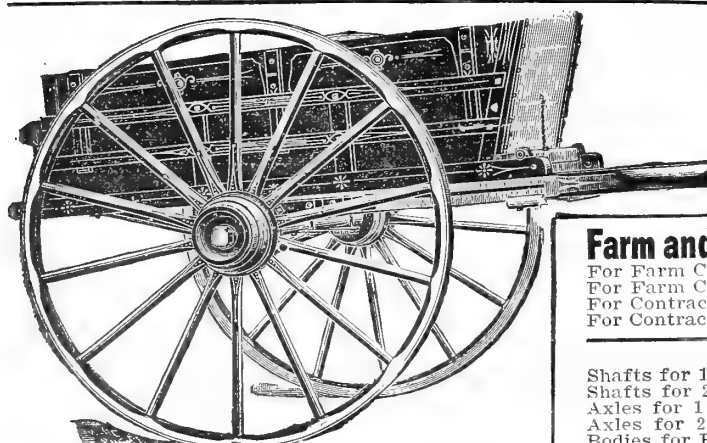
For tires thicker than regular, add List, \$4.50; Retail, \$2.75, for every ¼ inch additional thickness; on 3 inches wide and upwards. Less than 3 inches wide, add List, \$2.25; Retail, \$1.50, for every ¼ inch additional thickness. **Special Discount for Cash.**

Nos.	Size of Axle	Size of Tubular Axles	Size of Tires	Height		Wheels		Dimensions of Body				Weight	Capacity	Wagon Complete		Wagon Complete		Gears Only		Gears Only	
				Front	Rear	Front	Rear	Length	Width	Depth	In.			List	Retail	List	Retail	With Brakes	Without Brakes	List	Retail
42	1½	1½x8	1½x16	3	6	4	0	9	6	3	6	12	6	107.50	\$64.50	114.00	\$68.50	\$101.00	\$60.75	\$95.00	\$57.00
44	1½	2½x8	2½x16	3	6	4	2	10	6	3	6	12	6	118.00	71.00	126.00	75.75	114.00	68.50	106.00	63.75
46	1½	2½x9	2½x16	3	6	4	2	10	6	3	6	12	8	126.00	75.75	134.50	80.50	120.00	72.00	112.00	67.25
48	2	2½x10	2½x16	3	6	4	2	10	6	3	6	14	8	134.50	80.75	143.00	86.00	128.50	77.25	120.00	72.00
50	2½	2½x11	2½x16	3	6	4	2	Running Gear.				1200	6000	170.50	102.00	181.00	108.50	162.00	97.25	125.00	91.25
52	2½	3½x12	3½x16	3	6	4	2	Running Gear.				1200	8000	170.50	102.00	181.00	108.50	162.00	97.25	125.00	91.25

Special Attention Is Called to Nos. 48, 50 and 52. For G. & T. Heavy Gears, See Prices Above.

EXTRAS FOR G. & T. WAGONS.

	G. & T. One-Horse		No. 40		No. 42		No. 44		No. 46		No. 48		No. 50		No. 52	
	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail	List	Retail
Bodies	\$18.00	\$10.75	\$20.00	\$12.00	\$21.00	\$12.50	\$23.00	\$13.75	\$25.00	\$15.00	\$28.00	\$16.75	\$35.00	\$21.00		
Spring Seat	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50		
Tongues	9.00	5.50	9.00	5.50	9.00	5.50										
Shafts	8.00	5.00	8.00	5.00	8.00	5.00										
Wheels Reg., per set	26.50	16.00	32.00	19.25	47.50	28.50	53.00	32.00	58.50	35.25	64.00	38.50	69.50	41.75	\$75.00	\$45.00



FARM AND CONTRACTORS' CART

With 5 and 6-inch Tires and extra heavy Contractors' Carts made specially to order when wanted.

These Carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tires.	Diam. of Wheels.	List Price.	Retail Price.
1½ inches.	3 inches.	4 ft. 10 in.	\$61.00	\$36.75
1½ inches.	4 inches.	4 ft. 10 in.	69.00	41.50
2 inches.	3 inches.	4 ft. 10 in.	76.00	45.75
2 inches.	4 inches.	4 ft. 10 in.	84.00	50.50

Special Discount for Cash.

Farm and Contractors' Cart Wheels

	List Price.	Ret'l Price.
For Farm Cart, 1½-inch axle, 3-inch tire	\$36.00	\$21.75
For Farm Cart, 1½-inch axle, 4-inch tire	44.00	26.50
For Contractors' Carts, 2-inch axle, 3-inch tire	40.00	24.00
For Contractors' Carts, 2-inch axle, 4-inch tire	48.00	29.00

List Price. Ret'l Price.

Shafts for 1½-inch axle Farm Cart, no irons	\$9.60	\$5.75
Shafts for 2-inch axle Contractors' Cart, no irons	10.40	6.25
Axles for 1½-inch axle Farm Cart	7.20	4.50
Axles for 2-inch Contractors' Cart	12.00	7.25
Bodies for Farm Cart	25.60	15.50
Bodies for Contractors' Cart	32.00	19.25

All Prices Subject to Change Without Notice.



Studebaker

For Steel Skeins on No. 2 Wagons, add to List, \$3.00; Retail, \$2.50.

For Steel Skeins on Nos. 3 and 4 Wagons, add to List, \$3.75; Retail, \$3.25.

If **WAGONS** are wanted without brake, deduct from List on No. 2, \$8.50; from Retail, \$7.25. On Nos. 3 and 4, deduct from List, \$9.00; from Retail, \$7.50. On No. 5, deduct from List, \$10.50; from Retail, \$8.85. If

GEARS are wanted without brake, deduct from No. 2 from List, \$6.50; from Retail, \$5.50. For Nos. 3 and 4 from List, \$7.00; from Retail, \$5.90. For No. 5 from List, \$8.50; from Retail, \$7.25.

STANDARD THIMBLE SKEIN FARM WAGON

No.	Size of Skeins.	Height of Wheels.		Size of Tire.	Dimensions of Box.			Approximate		Wagon complete with brake.		Gear only with brake.				
		Front.	Hind.		Lower.	Top.	Length.	Weight	Capacity	List Price.	Retail Price.	List Price.	Retail Price.			
	Inches.	Ft.	In.	Ft.	In.	In.	In.	Ft.	In.	Lbs.	Lbs.					
2	2 3/4 x 8	3	8	4	4	1 1/2 x 9-16	12	8	10	0	850	2000	\$93.50	\$75.00	\$72.50	\$58.00
2	2 3/4 x 8	3	8	4	4	2 x 7-16	12	8	10	0	850	2000	97.00	78.00	76.00	61.00
2	2 3/4 x 8	3	8	4	4	2 1/2 x 7-16	12	8	10	0	850	2000	100.00	80.00	79.00	63.50
2	2 3/4 x 8	3	8	4	4	3 x 7 1/2	12	8	10	0	850	2000	101.50	81.50	80.50	64.50
3	3 x 9	3	8	4	6	1 1/2 x 5 1/2	13	8	10	6	1000	3500	100.00	80.00	77.00	61.75
3	3 x 9	3	8	4	6	2 x 1 1/2	13	8	10	6	1000	3500	103.00	82.50	80.00	64.00
3	3 x 9	3	8	4	6	2 1/2 x 1 1/2	13	8	10	6	1000	3500	107.00	86.00	84.00	67.50
3	3 x 9	3	8	4	6	3 x 1 1/2	13	8	10	6	1000	3500	110.00	88.00	87.00	69.75
4	3 1/4 x 10	3	8	4	6	1 1/2 x 3 1/4	14	10	10	6	1100	4000	103.00	82.50	79.00	63.50
4	3 1/4 x 10	3	8	4	6	2 x 5 1/2	14	10	10	6	1100	4000	106.50	85.50	82.50	66.00
4	3 1/4 x 10	3	8	4	6	2 1/2 x 1 1/2	14	10	10	6	1100	4000	110.00	88.00	86.00	69.00
4	3 1/4 x 10	3	8	4	6	3 x 1 1/2	14	10	10	6	1100	4000	113.00	90.50	89.00	71.50
5	3 1/2 x 11	3	8	4	6	1 1/2 x 3 1/4	16	12	10	6	1250	5000	113.50	91.00	87.50	70.00
5	3 1/2 x 11	3	8	4	6	3 x 9-16	16	12	10	6	1250	5000	123.50	99.00	97.50	78.00

SPECIAL MARYLAND AND PENNSYLVANIA PATTERN LINCH PIN STEEL SKEIN GEARS WITH TRUSS RODS

No. 27—3 1/2-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x5 1/2 tire without Brake.....List, \$109.50. Retail, \$87.75
 No. 28—3 3/4-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x7 1/2 tire without Brake.....List, 132.00. Retail, 105.75
 No. 29—4-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x7 1/2 tire without Brake.....List, 167.00. Retail, 133.75
 For Rubber Bars and Blocks, add to above, List, \$3.00; Retail, \$2.40.

RAX SCIENTIFIC RATS AND MICE DESTROYER



Rax is a bacteriological preparation, containing Pure Cultures of an active Virus, which has a deadly effect on Mice, Rats and Field Mice, but is harmless to all other animals, such as Dogs, Cats, Rabbits, Poultry,

Stock, as well as to Human Beings.

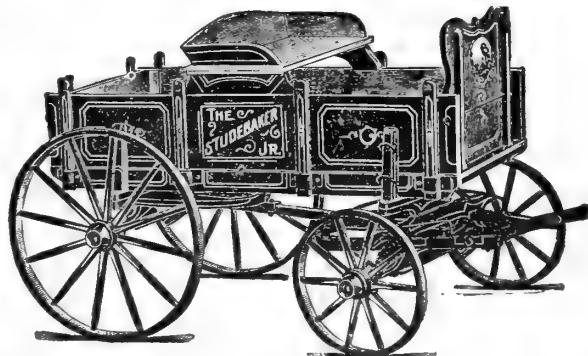
Thus **Rax** is **not** a poison and may be used without the precaution necessary in handling other rat exterminators.

Rats and Mice having eaten the bait prepared with **Rax** become gradually sick and die within ten to fourteen days. While infected they communicate the Virus to other rats and mice coming in contact with them or their haunts. They never die inside the buildings, as they become very feverish and seek the open to get fresh air and water.

Rax has no equal as a destroyer of Rats and Mice. Directions with every package. Price, 50c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

STUDEBAKER JUNIOR



Substantially made miniature wagon; not a mere toy. One of the finest and strongest wagons of its kind in the market; built after style of regular Studebaker—oak frame, farm wagon gearing with bent hounds and adjustable reach; all parts strongly ironed and braced, welded tires, staggered spokes, hub boxes and caps, oak shafts (or pole if desired), handsomely painted. Body is 17x36, wheels 12x18 inches. Suitable for use by the child alone or with a good sized dog, sheep or goat in the shafts.

Prices: Wagon with Hand Pole, \$8.25; with Hand Pole and Shaft, \$9.00.

Extras—Goat Pole, \$2.00; Shafts, \$1.00; Runner Attachment for Winter Use, \$1.75; Wheels, per set of 4, \$3.00.

OUR HANDY STEEL WHEEL FARM TRUCKS

All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, capacity 3000 lbs. No. 24 with 3½x10 skeins, capacity 4000 lbs.

Both Nos. 22 and 24 Trucks have 28-inch front and 30-inch rear wheels, 4x¾ tires.

Weights—No. 22, 475 lbs.; No. 24, 510 lbs.

No. 22 Truck—List Price, \$41.00; Our Special Price, \$25.00.

No. 24 Truck—List Price, \$43.00; Our Special Price, \$26.00.

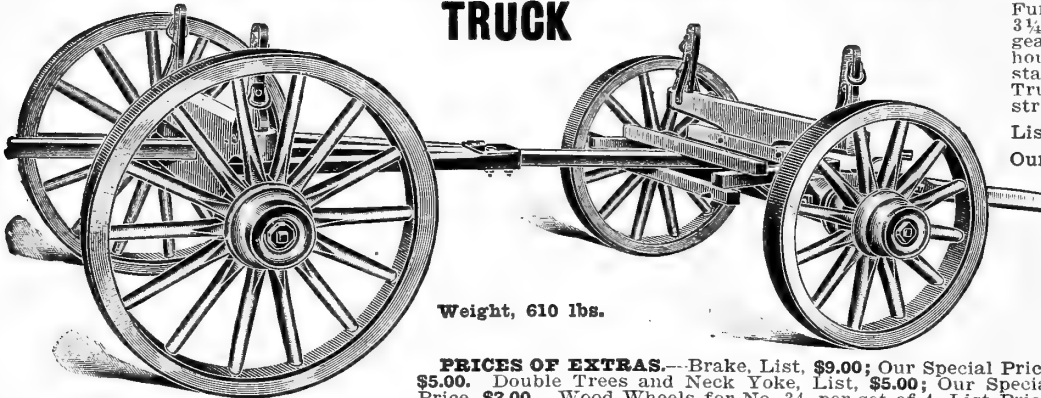


Wood
Hounds,
Well
Braced.
Hickory
Axles.

PRICES OF EXTRAS.

Brake—List, \$9.00; Our Special Price, \$5.00.
Double Trees and Neck Yoke—List, \$5.00; Our Special Price, \$3.00.

OUR No. 34 LOW-DOWN WOOD WHEEL FARM TRUCK



Weight, 610 lbs.

This truck has low-down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles, 3½x10-inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 lbs.

List Price.....\$60.00

Our Special Price..... 36.00

Our No. 31 Farm Truck

Very similar to our No. 34 Truck, the difference being that it is built without front hounds and the bolster standards are the style shown on the Steel Wheel Truck illustrated below.

List Price.....\$58.00

Our Special Price.. 35.00

PRICES OF EXTRAS.—Brake, List, \$9.00; Our Special Price, \$5.00. Double Trees and Neck Yoke, List, \$5.00; Our Special Price, \$3.00. Wood Wheels for No. 34, per set of 4, List Price, \$40.00; Our Special Price, \$25.00.

THE OLD DOMINION WAGON

STIFF TONGUE TRUCK.—3½x10-inch hickory axle, wood wheels, 36-inch front, 42-inch rear, 3x¾-inch tire. A serviceable wagon at a low price.

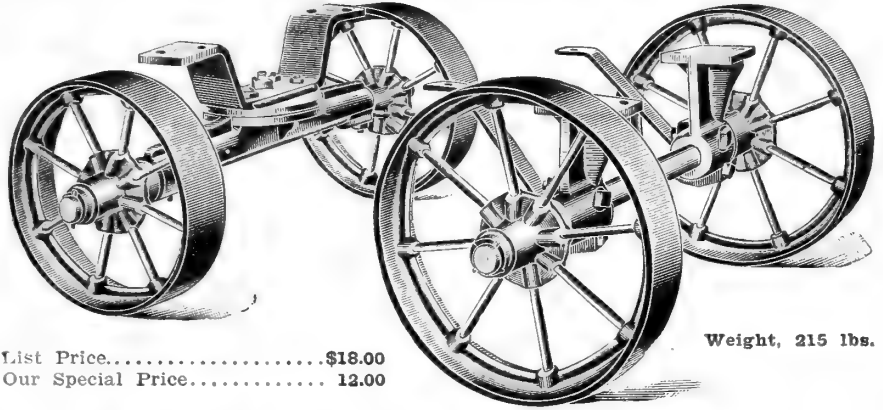
Weight, 675 lbs.



List Price.....\$80.00
Our Special Price..... 50.00

PONY TRUCK

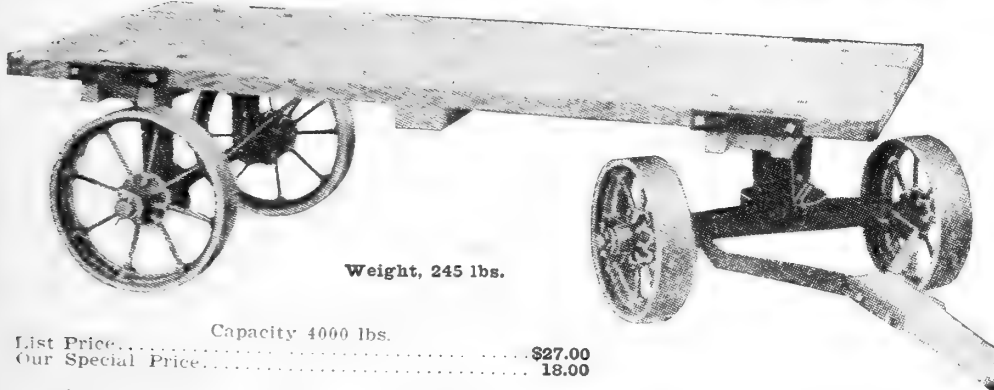
For mounting small engines. Wheels 12x14 inches high with 3-inch tread, steel axles 1 1/4-inch round, hubs 4 1/2-inch long, capacity 2000 pounds. This Gear can be bolted to the skids of engine or a platform may be bolted on. A tongue is furnished with each truck.



List Price.....\$18.00
Our Special Price..... 12.00

Weight, 215 lbs.

PLATFORM WAREHOUSE TRUCK

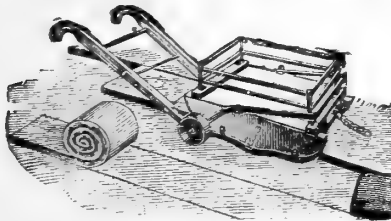


Weight, 245 lbs.

Capacity 4000 lbs.
List Price.....\$27.00
Our Special Price..... 18.00

This cut represents our Platform Warehouse Truck, a very strong truck capable of handling heavy loads. Size of platform 2 feet 6 inches by 4 feet, and 1 1/2 inches thick. Height from floor to top of platform 18 inches, size of front wheels 12 inches, rear wheels 14 inches, with 2-inch tread, weight 245 pounds. Almost any style of platform or box may be mounted on this gear. Made with tongue that can be changed from one truck to another, if desired. A very convenient feature where a number of trucks are used in small space.

Richmond Sod Cutter



This machine is meeting with high endorsement among railway men and others, and has proved to be a great success. It will enable you to beautify your station grounds, parks and lawns at a low minimum of cost. This new implement cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, working equally well on level or uneven surface, cutting both ways with the land and leaving no sod uncut. It being light of draft, easily managed, strong, neat and durable, warrants us in making this recommendation.

One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of forty men. Instructions for Operating Furnished with Each Machine.

12-inch Machine, List Price, \$33.00; Our Special Price, \$30.00.

14-inch Machine, List Price, \$35.00; Our Special Price, \$32.50.

METAL TRUCK WHEELS

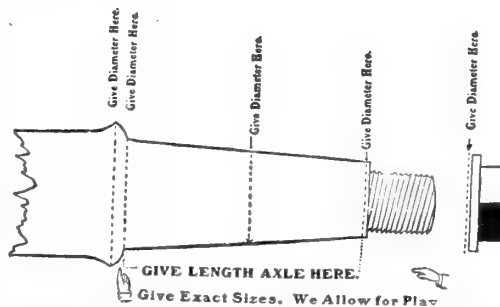


Diagram Showing How to Measure Your Skeins

As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

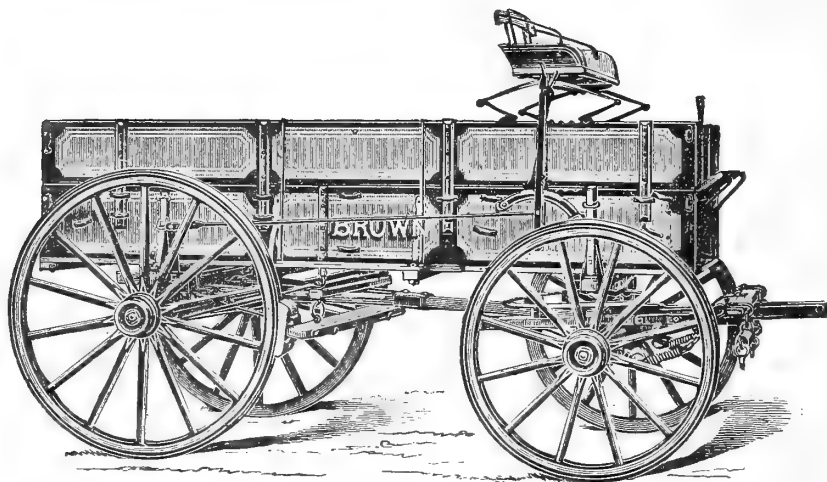
PRICES PER WHEEL WITH 4x 1/2 TIRES.

24-inch—Factory List Price,	\$6.00.	Our Special Price,	\$3.75
26-inch—Factory List Price,	6.30.	Our Special Price,	4.00
28-inch—Factory List Price,	6.60.	Our Special Price,	4.25
30-inch—Factory List Price,	7.20.	Our Special Price,	4.50
32-inch—Factory List Price,	7.80.	Our Special Price,	4.75
34-inch—Factory List Price,	8.40.	Our Special Price,	5.00
36-inch—Factory List Price,	8.75.	Our Special Price,	5.25

For 4x 1/2 Tire add to Factory List Price, 75c., and Our Special Price, 50c. per wheel.

Prices on other sizes quoted on application.

BROWN WAGON



Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons.

Coil springs are applied to tongue—eases draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity Pounds.	Wagon Complete with Brake		Gear only with Brake	
							List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3'8"	4'4"	1 1/2 x 1 1/2	22"	2500	\$88.00	\$83.50	\$76.25	\$65.00
00	2 3/4 x 8 1/2	3'8"	4'4"	2 1/2 x 1 1/2	22"	2500	105.85	90.00	84.10	71.50
1	3 x 9	3'8"	4'4"	1 1/2 x 5/8	24"	4000	101.00	86.00	79.25	67.50
1	3 x 9	3'8"	4'4"	3 x 5/8	24"	4000	113.35	96.50	91.60	78.00
1	3 x 9	3'8"	4'4"	4 x 5/8	24"	4000	122.45	104.25	100.70	85.75
2	3 1/4 x 10	3'8"	4'4"	1 1/2 x 9/8	26"	4500	104.00	88.50	82.25	70.00
2	3 1/4 x 10	3'8"	4'4"	3 x 5/8	26"	4500	116.35	99.00	94.60	80.50
2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	26"	4500	125.45	106.75	103.70	88.25

All of above Complete Wagons have Seats and Gear Brakes.

Following Special Gears have Linch Pin Steel Skeins, Gear Brakes, and Nos. 3, 4 and 5 have Side and Back action Brakes with Round Coupling Poles.

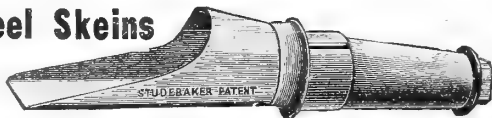
No.	Size	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity Pounds.	List Price.	Retail Price.	List Price.	Retail Price.
2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	....	4500	.....	.....	\$109.70	\$93.25
3	3 1/2 x 11	3'8"	4'4"	4 x 5/8	....	5500	.....	.....	129.95	113.25
4	3 3/4 x 12	3'8"	4'4"	4 x 5/8	....	6500	.....	.....	153.45	132.90
5	4 x 12	3'8"	4'4"	4 x 1	....	7500	.....	.....	167.75	146.00

Following Solid Steel Axle Gears have Side Brakes and Round Coupling Poles.

No.	Size	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity Pounds.	List Price.	Retail Price.	List Price.	Retail Price.
No. 1—1 5/8"	Solid Steel Axle Gear with 3x3/4"	.....	.....	Tires, Side Brake.....	.....	.....	.....	.....	\$99.90	\$85.00
No. 2—1 3/4"	Solid Steel Axle Gear with 3x3/4"	.....	.....	Tires, Side Brake.....	.....	.....	.....	.....	102.90	87.50
No. 3—2"	Solid Steel Axle Gear with 3x3/4"	.....	.....	Tires, Side Brake.....	.....	.....	.....	.....	110.90	94.25
No. 4—2 1/4"	Solid Steel Axle Gear with 3x3/4"	.....	.....	Tires, Side Brake.....	.....	.....	.....	.....	130.30	110.75

STUDEBAKER Patent Steel Skeins

Revised Price List PATENT STEEL SKEINS.



No.	Size	With boxes, per set.	
		With Nuts. Price List	Boxes only, per set Price List
2	2 1/2 x 8"	\$5.20	\$1.16
3	2 3/4 x 8"	6.10	1.22
6	3 x 9"	6.50	1.30
9	3 1/4 x 10"	7.50	1.50
11	3 1/2 x 11"	8.50	1.70
14	3 3/4 x 12"	10.00	2.00
15	4 x 12"	12.00	2.40
17	4 1/2 x 13"	18.00	3.60

With Linch Pins. Price List.

No.	Size	Skein Only, with Nut or Linch Pin, no Box, each	Box Only, each
21	3 1/4 x 10"	\$7.50	1.50
23	3 1/2 x 11"	8.50	1.70
25	3 3/4 x 12"	10.00	2.00
26	4 x 12"	12.00	2.40

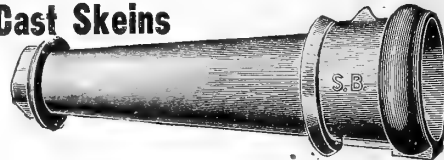
Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

STEEL SKEINS FOR PETER SCHUTTLER WAGONS.

Size.	Skein Only, with Nut or Linch Pin, no Box, each	Box Only, each
3 1/4 x 10"	\$2.15	\$0.55
3 1/2 x 11"	2.30	.60
3 3/4 x 12"	2.70	.70
4 x 12"	3.30	.80
4 1/4 x 12"	3.50	.90
4 1/2 x 13"	4.90	1.20

S. B. Trade Cast Skeins

Standard Price List S. B. Trade Cast Skeins.



No.	Size.	Cast Skeins, with Boxes.		Boxes only.	
		List, Per Set.	Retail, Per Set.	List, Per Set.	Retail, Per Set.
9	2 1/2 x 8"	\$4.75	\$2.85	\$1.58	\$0.95
10	2 3/4 x 8"	5.25	3.15	1.75	1.05
13	3 x 9"	6.00	3.60	2.00	1.20
16	3 1/4 x 10"	7.50	4.50	2.50	1.50
19	3 1/2 x 11"	8.30	5.00	2.77	1.65
22	3 3/4 x 12"	9.40	5.65	3.14	1.90
23	4 x 12"	10.60	6.35	3.54	2.15

All sizes, from 2 1/2 x 8 to 4 x 12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

PATENT TRUSS CAST SKEINS AND BOXES FOR STUDEBAKER WAGONS.

No.	Size.	with nuts, per set.....	List.
No. 4—Size, 2 3/4 x 8"	\$5.25
No. 5—Size, 3 x 9"	6.00
No. 6—Size, 3 1/4 x 10"	7.50
No. 7—Size, 3 1/2 x 11"	8.30

Less 20 per cent. Retail from above List.

CAST AND STEEL SKEINS FOR BROWN WAGONS.

Size.	Each.
2 3/4" Cast Skeins, patent extension for bolt or clip, no box.	\$1.05
3 1/4" Cast Skeins, patent extension for bolt or clip, no box.	1.30
3 1/2" Cast Skeins, patent extension for bolt or clip, no box.	1.30
3 3/4" Steel Skeins, long sleeve, no box.....	2.10
3 1/2" Steel Skeins, long sleeve, no box.....	2.50
4" Steel Skeins, long sleeve, no box.....	3.00

Wood Single, Double and Tripletrees



26-inch Southern Singletrees....	25c.	36-inch Heavy Singletrees.....	\$0.75
28-inch Extra Nailed Singletrees.	35c.	Wagon Singletrees, 36 inches....	.75
28-inch Extra Nailed, 3 Hooks, Singletrees	40c.	36-inch Southern Doubletrees....	.75
30-inch Heavy Singletrees.....	50c.	36-inch Heavy Doubletrees.....	.90
32-inch Heavy Singletrees.....	55c.	40-inch Heavy Doubletrees.....	1.00
34-inch Heavy Singletrees.....	60c.	Extra Heavy Tripletrees.....	2.25

WOOD NECK YOKE



OVAL LAP OR OPEN RINGS.
 $\frac{1}{2}$ x2 $\frac{1}{2}$, 8c. each; $\frac{3}{8}$ x3, 12c. ea.

CHAIN REPAIR LINKS.
 10-2, 15c. doz.; 10-1, 20c. doz.

SIDE OPEN LAP LINKS.
 $\frac{1}{2}$ x2 $\frac{1}{2}$, 8c. each; $\frac{3}{8}$ x2 $\frac{1}{2}$, 10c. each; $\frac{3}{8}$ x3, 12c. each.

No. 6—
 40-in. \$0.75
 48-in. 1.00

Wagon Singletrees, No. 9 $\frac{1}{2}$, each 75c.
 Wagon Doubletrees, No. 12 $\frac{1}{2}$, each \$1.10
 Doubletrees and Singletrees with neck yoke for low-down wagon trucks, per set \$2.75

U SINGLE, DOUBLE AND TRIPLETREES



The lightest and strongest Steel Trees on the market. Hook is so constructed that the trace will not unhook.

Prices of Singletrees, Regular 24-inch, 35c.; 26-inch, 40c.; 28-inch, 45c.; 30-inch, 50c. Doubletrees, Regular 36-inch, 75c. Singletrees with Hooks, 24-inch, 40c.; 26-inch, 45c.; 28-inch, 50c.; 30-inch, 60c. Doubletrees with Hooks, 36-inch, 80c.

Steel Tripletree Sets, complete, per set of 6 pieces, \$4.00.

EVERLASTING TUBULAR STEEL DOUBLETREES

PLOW DOUBLETREES IN SETS, THREE SIZES.
 Pattern No. 105.

No. 0—For light plowing in moss soil; length, 33 in. and 28 in. Per set, \$3.00.

No. 1—For regular plowing in clay soil; length, 36 in. and 30 in. Per set, \$3.25.

No. 2—For extra heavy plowing, street making, etc.; length, 36 in. and 32 in. Per set, \$4.25.

Singletrees for above, Pat. No. 107.
 24 inches.....\$0.67 each.
 26 inches......70 each.
 28 inches......75 each.
 30 inches......85 each.
 32 inches.....1.20 each.

STEEL FARM WAGON DOUBLETREES
 In Sets Complete. Pattern No. 102.
 Two Sizes, with Rings or Hooks for Traces.

No. 2—Capacity, 4000 pounds; eveners, 46 inches; Singletrees, 34 inches. Per set, \$5.25.

No. 3—Capacity, 7000 pounds; eveners, 48 inches; Singletrees, 36 inches. Per set, \$6.00.

Singletrees for above, Pattern No. 104.
 Three Sizes.

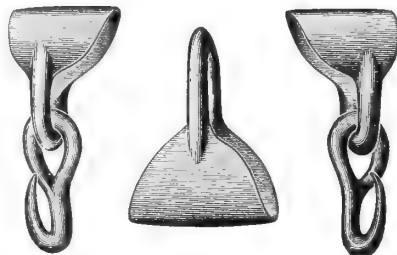
No. 1—33-in., capy. 1500 lbs..\$1.25 each.
 No. 2—34-in., capy. 2000 lbs.. 1.35 each.
 No. 3—36-in., capy. 4000 lbs.. 1.67 each.

CONTRACTORS' TUBULAR EVERLASTING STEEL DOUBLETREES.
 Pattern No. 97. Similar to Pattern No. 105.
 No. 3—Eveners, 48 inches; No. 3 Singletree, 36 inches; weight, per set, 40 lbs. Price, per set, \$7.50.

CONTRACTORS' TUBULAR EVERLASTING STEEL NECK YOKE.
 Pattern No. 98.

No. 2—Length, 46 inches; weight, 14 pounds. Price, each, \$2.75.

Set of Welded Clips



CLIPS FOR DOUBLETREES.

Our No. 36, Factory No. 77—Southern; one $\frac{5}{8}$ -in. Center Clip and Hook, welded, with $\frac{1}{2}$ -in. hook and two $\frac{1}{2}$ -in. End Clips, welded, as used on our 36-in. Southern Doubletrees. List, per doz., \$3.30. Set, 25c.

Our No. 36 and 40, Factory No. 76—Pennsylvania; one $\frac{3}{4}$ -in. Center Clip and Hook, welded, with $\frac{3}{4}$ -in. Hook and two 9-16-in. End Clips, welded, as used on our 36 and 40-in. Heavy Pennsylvania Doubletrees. List, per doz., \$5.30. Set, 40c.

CLIPS FOR SINGLETREES.

Our No. 26, Factory No. 75—One Center $\frac{1}{2}$ -in. Clip, welded, and two $\frac{3}{8}$ -in. End Clips, welded, with 5-16-in. Hooks, as used on our 28-in. Singletrees. List, per doz., \$2.10. Set, 20c.

Our No. 30, Factory No. 74—One Center 9-16-in. Clip, welded, and two 7-16-in. End Clips, welded, with $\frac{3}{8}$ -in. Hooks, as used on our 30 and 32-in. Heavy Singletrees. List, per doz., \$3.00. Set, 25c.

Our No. 34, Factory No. 73—One Center $\frac{5}{8}$ -in. Clip, welded, and two 7-16-in. End Clips, welded, and $\frac{3}{8}$ -in. Hooks, as used on our 34 and 36-in. Heavy Singletrees. List, per doz., \$3.20. Set, 30c.

New Pattern No. 105

Singletrees Equipped with Hooks or Rings, as desired.

New Pattern No. 102

Made Specially for Farm and Freight Wagons, also Log Trucks.

A perfect 3-Horse Equalizer.

Price, \$5.50.

Gamble Improved 3-Horse Equalizer No. 7. Right-hand only.

The Gamble No. 10—4-Horse Equalizer. Price, \$6.00.

Tilley Adjustable Scaffolding Jacks

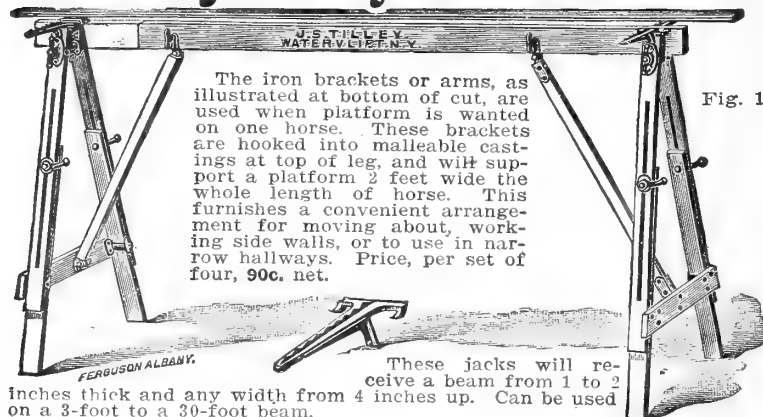


Fig. 1

The iron brackets or arms, as illustrated at bottom of cut, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg, and will support a platform 2 feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four, 90c. net.

Are light, strong and suitable for plasterers, carpenters, painters and paperhangers, the putting up of metal ceilings, shafting, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but 60c. With them and the proper size jack the scaffold can be made to fit a store or basement.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.

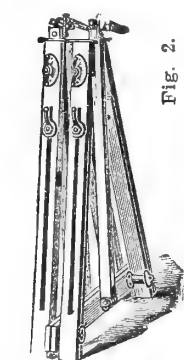


Fig. 2

No.	3 1/4 x 1 1/4 Slotted Leg.	3 1/4 x 1 1/4 Traveling Leg.	Per Jack.
5.	Stands 3 ft. high, will extend to 5 ft.		\$2.50
6.	Stands 4 ft. high, will extend to 6 ft.		2.50
7.	Stands 5 ft. high, will extend to 8 ft.		2.80
8.	Stands 6 ft. high, will extend to 9 ft.		3.20
9.	Stands 7 ft. high, will extend to 11 ft.		3.55
Brackets, per set of four, net.			.90

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

No.	4 x 1 1/4 Slotted Leg.	3 1/4 x 1 1/4 Traveling Leg.	Per Jack.
11.	Stands 4 ft. high, will extend to 6 ft.		\$2.90
12.	Stands 5 ft. high, will extend to 8 ft.		3.20
13.	Stands 6 ft. high, will extend to 9 ft.		3.60
14.	Stands 7 ft. high, will extend to 11 ft.		4.00
15.	Stands 8 ft. high, will extend to 12 1/2 ft.		4.30
16.	Stands 10 ft. high, will extend to 15 ft.		6.00

Tilley Improved Sectional Ladders

Sections 6 feet 5 inches long. Either plate and pin lock or lock nut fastening. Per Section, \$1.50.

SINGLE LADDERS

Made of spruce, with hand shaved oak rounds; first class in every particular.

Price.

12, 14, 16, 18 feet.

15c. per foot.

Ladders over 18 feet, 2c. per foot extra.

Also have a cheaper single ladder, 2c. per foot less than above prices.

No. 1—Bottom or floor section.

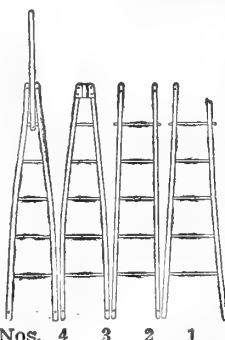
No. 2—Regular or middle section.

No. 3—Top window cleaners' section.

No. 4—Top fruit pickers' section.

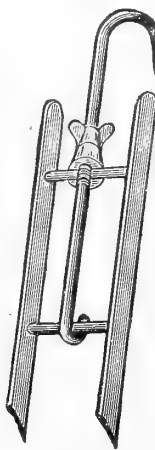
Price, any section, per section, \$1.50.

Window Cleaners' and Fruit Pickers' Ladders



Nos. 4 3 2 1

TILLEY LADDER HOOK



This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. Price, 50c. each.

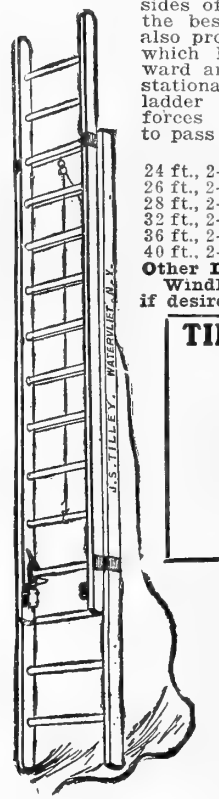
OUR IMPROVED TILLEY EXTENSION LADDERS

These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling sections, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

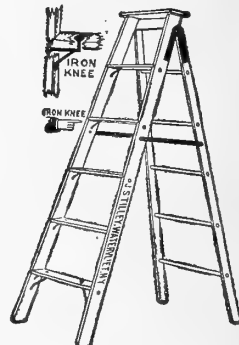
PRICES.

24 ft., 2-12 ft. sec., extends 21 ft.	\$6.00
26 ft., 2-13 ft. sec., extends 23 ft.	6.50
28 ft., 2-14 ft. sec., extends 25 ft.	7.00
32 ft., 2-16 ft. sec., extends 29 ft.	8.00
36 ft., 2-18 ft. sec., extends 33 ft.	9.00
40 ft., 2-20 ft. sec., extends 36 ft.	12.00

Other Lengths Given on Application. Windlass Ladders can be furnished if desired. Prices on application.



TILLEY ELECTRICIANS' STEP LADDER

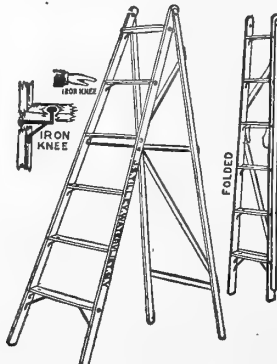


Constructed as shown in cut above. Strictly first-class in every respect. A Combination Step Ladder and Trestle. Just the ladder for Electricians, Painters, Plumbers and mill work. A combination knee, tie and regular brace (as shown in detached cut) under each end of each step, which passes down through the step

out through the sides and riveted at both ends, forms a positive tie support and regular brace.

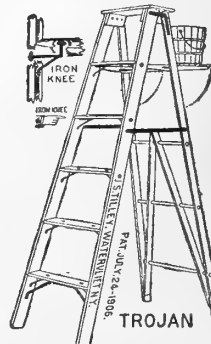
6-Step.. \$2.40	12-Step.. \$4.80
8-Step.. 3.20	14-Step.. 7.00
10-Step.. 4.00	16-Step.. 8.00

DECORATORS' LADDERS



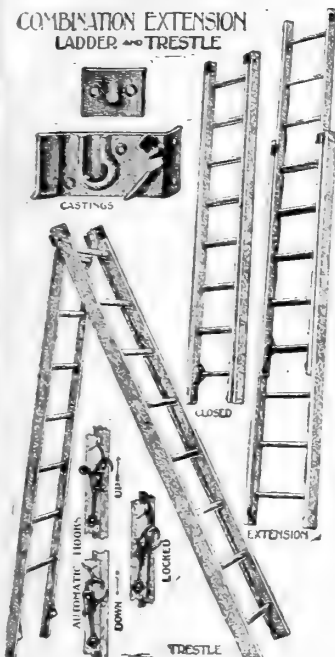
4-Step.. \$1.00	8-Step.. \$2.00
6-Step.. 1.50	10-Step.. 2.50

TILLEY TROJAN STEP LADDER



Light, strong and stiff. Iron knees under ends of each step. These knees pass entirely through the steps and side bars, holding ladders firmly together and insuring a strong brace to the steps. Pail rests on all sizes of 5 feet and over. Furnished in 6, 8, 10 and 12-foot lengths. Price, 30c. per foot.

COMBINATION EXTENSION LADDER AND TRESTLE



Gritco Combination Extension Ladder and Trestle

This is a first-class ladder, with rope and pulley attachment above 18 feet. Has automatic Hooks and can be used as an Extension Ladder, or can be converted into a Trestle, which also serves as a Stepladder. Can be taken apart. Always made in equal sections; 12 to 28 feet. **Price, per ft., 18c.**

Above 24-ft. we prefer the Rope and Pulley Extension.

Gritco "Security" Step Ladder With All-Steel Lock

Made from strictly clear seasoned wood. Extra wide steps and top. Has very strong, full looped, galvanized steel hinge or ear, with right angle flange to which top is riveted. **Every step is rodded and trussed**, so that it is constantly being drawn together when there is weight upon the steps; can not get rickety. Braces are all steel bound; secure in every point. **4 to 12 ft., per ft., 30c.**

12 to 16 ft., extra heavy, per ft., 40c.



GRITCO PULLEY EXTENSION LADDER

There is not a finer ladder on the market.

Norway and spruce sides; 1 1/4-inch straight, air dried **First-Class Hickory** rounds.

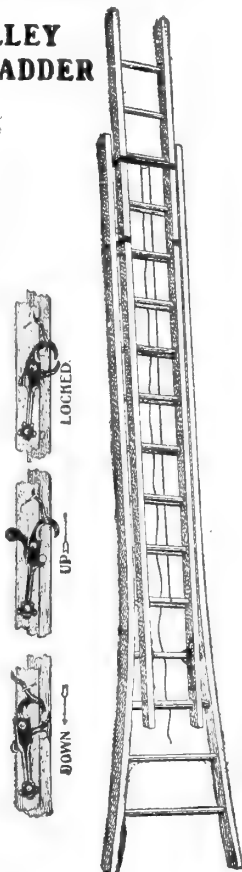
Spread at base: 6 to 10 inches more than regular width of ladder.

Has Automatic Hooks and is operated by the rope. It can be easily and quickly taken apart and put together.

26 to 30 ft., per ft., 18c.

32 to 44 ft., per ft., 20c.

Allow 2 feet for lap on ladders 32 feet and under, and 3 feet on ladders over 32 feet.



"A"-Shaped Trestles



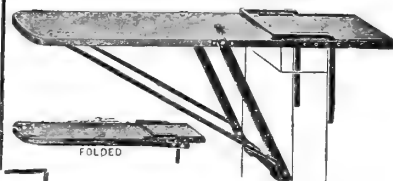
STRONG AND LIGHT.
Made in All Sizes, From **6 Feet to 12 Feet.**

Pair.
2 6-ft. Trestles...\$6.00
2 8-ft. Trestles... 8.00
2 10-ft. Trestles...10.00
2 12-ft. Trestles...12.00

New Model Semi-Tubular Steel Brace Step, Extension and Single Ladders



WINDOW BRACKET OR PAINTERS' CRIPPLE.



Strong, folds up closely; weight, 24 pounds. Made of best material. Safe, and can be quickly adjusted to any window.

Regular Size, 4 ft. 4 in. board, **\$5.00 each.**
Extra Size, 6 ft. board, **\$6.00 each.**

Extension Trestles



AUTO-MATIC LOCKING DEVICE.

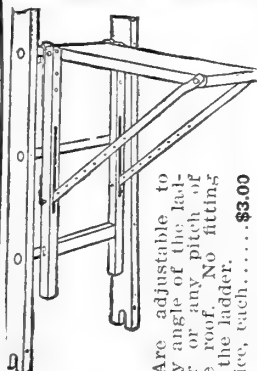
No rods to take out, no thumb nut to adjust. One set of these Trestles will take the place of four sets of ordinary Trestles.

Each.

6-ft. will extend to about 8 ft. \$4.50
7-ft. will extend to about 12 ft. 5.00
8-ft. will extend to about 14 ft. 5.50
9-ft. will extend to about 16 ft. 6.50
10-ft. will extend to about 18 ft. 7.75

Other lengths will be furnished on order.

Ladder Brackets



Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder.
Price, each, \$3.00

Tilley All-Iron Ladder Brackets

Per Pair, \$5.00.

TILLEY EXTENSION TRETTLES

Prices on Application.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

A 16-foot Single Ladder weighs only 21 to 25 pounds. By drawing out a small rod at top of stepladder it can be converted into two separate ladders. These goods are made almost entirely by hand, and are very much superior to factory ladders.

SINGLE LADDERS.

10 feet.....\$2.50	14 feet.....\$3.50	18 feet.....\$4.80
12 feet.....3.00	16 feet.....4.00	20 feet.....5.50

WOOD COLUMBIA DOUBLE STEPLADDERS.

4 feet.....\$1.75	8 feet.....\$3.50
6 feet.....2.60	10 feet.....4.50

EXTENSION LADDERS.

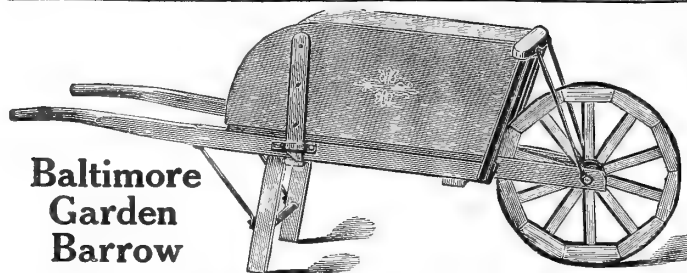
Two Ladders.		Price.	Two Ladders.		Price.
Each.	Extended.		Each.	Extended.	
10 feet....17 feet...	\$6.75	16 feet....29 feet...	\$11.00		
12 feet....21 feet...	8.00	18 feet....33 feet...	12.50		
14 feet....25 feet...	9.50	19 feet....35 feet...	14.50		
15 feet....27 feet...	10.00	20 feet....37 feet...	15.00		

HASTING'S STEPLADDER with upright support under each step. Stiff, Strong and Durable. All lengths, from 6 to 10 feet, 20c. per foot.

First Class in Every Particular. Special Prices to Paper-hangers, Painters and the Trade Generally on all Ladders.

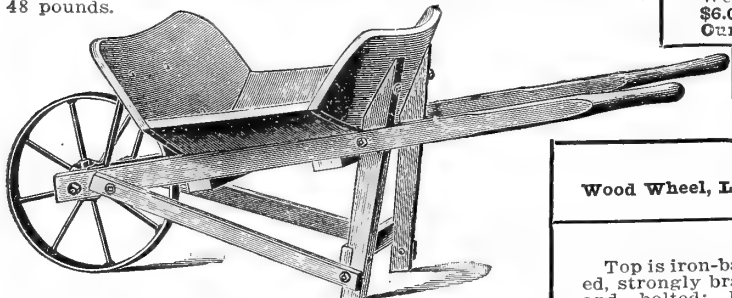
WETTING STEPLADDER. Good quality. All lengths, from 4 to 10 feet, at 18c. per foot. Special prices in quantities.

Baltimore Garden Barrow



The Baltimore Canal Barrow

Full-sized tray, edges shaved, bolted to legs and well bolted and braced in front. Handles and legs of selected hardwood; wheels painted. Furnished in both wood and steel wheel. **Wood Wheel, List Price, \$3.50; Our Special Price, \$2.25. Steel Wheel, List Price, \$3.80; Our Special Price, \$2.50.** Weight, with wood wheel, 45 lbs. Weight, with steel wheel, 48 pounds.



THE PLAIN BOLTED CANAL BARROWS.

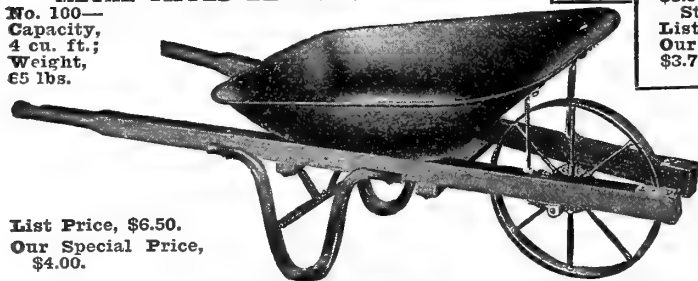
Ordinary size; bent tray; legs bolted to handles and well braced. Furnished with wood or steel wheel. Weight, with wood wheel, 40 lbs. Weight, with steel wheel, 45 lbs.

Wood Wheel, List Price, \$3.00; Our Special Price, \$2.00. Steel Wheel, List Price, \$3.20; Our Special Price, \$2.25.

Solid Pressed Steel Tray Barrow

ANGLE STEEL LEGS AND BRACES.
METAL TIPPED EXTENSION HANDLES.

No. 100—
Capacity,
4 cu. ft.;
Weight,
65 lbs.



List Price, \$6.50.
Our Special Price,
\$4.00.

Southern Steel Tray Barrow



Recommended
when a very cheap
and light Barrow
is wanted. Weight,
42 lbs.
List Price, \$4.50.
Our Special Price,
\$3.00.

EXTRAS FOR BARROWS.

	Our Price.	Special Price.
Wood Wheels for Nos. 4 and 5 Garden Barrows....	\$2.50	\$1.50
Steel Wheels for Nos. 4 and 5 Garden Barrows....	2.80	1.65
Wood Wheels for No. 1 Garden Barrow.....	1.40	1.65
Steel Wheels for No. 1 Garden Barrow.....	1.50	1.75
Steel Wheels for Nos. A 4, B 5 and Style D Barrows	2.00	1.25
Steel Wheels for Panama Barrow.....	2.00	1.25
Steel Wheels for No. 10 Barrow.....	2.50	1.50
Wood Wheels for Canal Barrow.....	1.50	1.00
Steel Wheels for Canal Barrow.....	2.00	1.25
Tray—No. Style D and A 4.....	3.20	2.00
Tray—No. B 5.....	4.00	2.50
Tray—Panama Barrow.....	3.20	2.00



Showing Barrow Folded for Shipping.

Made of seasoned wood, double frames, firmly bolted, iron braced and so constructed that by removing one bolt (the axle) and two nuts they can be folded flat down and shipped at lowest rate of freight.

No. 4, MEDIUM SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 19½ in.; depth, 11 in.; width at handles, 23¾ in. Length of handles, 48 in. Wheel, diameter, 18 in.; tire, 1¼x3-16 in.; spokes, 1x1 in.; 8 spokes. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs. **Wood Wheel, List Price, \$5.60; Our Special Price, \$3.50. Steel Wheel, List Price, \$6.00; Our Special Price, \$3.75.**

No. 5, LARGE SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 21 in.; depth, 12 in.; width at handles, 23¾ in. Length at handles, 51 in. Wheel, diameter, 18 in.; tire, 1¼x3-16 in.; spokes, 1x1¼ in. Weight, 60 lbs. Finished as above. **Wood Wheel, List Price, \$6.00; Our Special Price, \$4.00. Steel Wheel, List Price, \$6.40; Our Special Price, \$4.25.**

No. 1 Special Garden Barrow

Size 30 in. long, 24 in. wide in front, 25 in. in back. Side boards 12 in. high, 30 in. long. Handles 5½ ft. long, 2¼x1¾ in. Wheel, 21 in. diameter, 6 spokes; hub, 3 in. diameter in center, 2 in. diameter at ends.

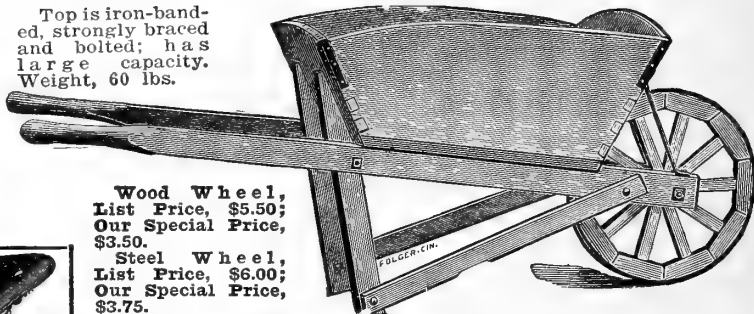
No. 1 Barrow, with 1½-in. tread. Weight, 60 lbs. Six crated in one package, 56¼ cubic feet.

Wood Wheel, List Price, \$7.20; Our Special Price, \$4.50.

Steel Wheel, List Price, \$7.50; Our Special Price, \$4.75.

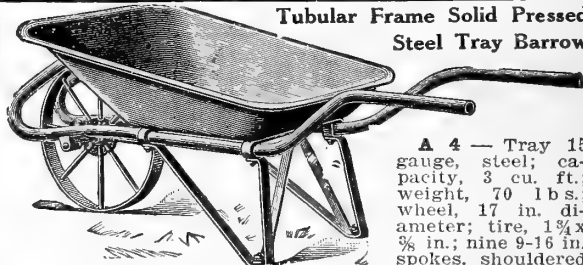
Coal and Mortar Barrow

Top is iron-banded, strongly braced and bolted; has large capacity. Weight, 60 lbs.



Wood Wheel, List Price, \$5.50; Our Special Price, \$3.50. Steel Wheel, List Price, \$6.00; Our Special Price, \$3.75.

Tubular Frame Solid Pressed Steel Tray Barrow



A 4—Tray 15 gauge, steel; capacity, 3 cu. ft.; weight, 70 lbs.; wheel, 17 in. diameter; tire, 1¼x¾ in.; nine 9-16 in. spokes, shouldered and riveted; axle, ¾ in. For moving earth, ashes and light work. **List Price, \$7.50; Our Special Price, \$4.50.**
B 5—Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 85 lbs.; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. **List Price, \$9.00; Our Special Price, \$5.50.**

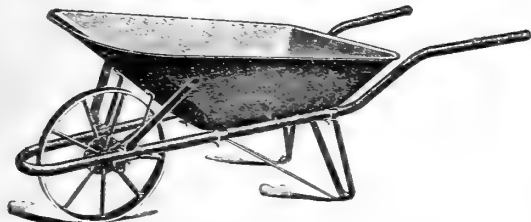
Panama Barrow



Solid Pressed Steel Tray, Full-Bolted Hardwood Frame. Haslup Patent Steel Wheel. Weight about 42 lbs. Capacity, 3 cu. ft. List Price, \$6.50; Our Special Price, \$4.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Solid Pressed Steel Tray Coal and Coke Barrow No. 10



One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 23 in.; depth of wheel, 12 in.; depth at handle, 6 in.; capacity, 6 cubic feet; weight, 110 lbs. Price, \$8.00.

Steel Wheels, each, \$1.50. Extra Trays, \$5.00.

Straight Handle Stone Barrow

Strong, well made, iron strapped over bottom, and well bolted together. Handles 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. Price, \$3.50.

Straight Handle Brick Barrow, \$5.50.



BALTIMORE STORE TRUCK.

Retail Price.....\$2.00

NEW YORK PATTERN.

HALF STRAPPED.		FULL STRAPPED.	
List Price.	Retail Price.	List Price.	Retail Price.
No. 0...\$4.50	\$2.65	No. 0...\$5.15	\$3.10
No. 1... 4.90	2.75	No. 1... 5.75	3.25
No. 2... 6.10	3.70	No. 2... 7.10	4.25
No. 3... 8.00	4.80	No. 3... 9.00	5.40
No. 4...10.00	6.00	No. 4...11.00	6.60
No. 5...11.50	6.90	No. 5...13.50	8.10

NEW YORK PATTERN.—SIZES.

	Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight.
No. 1	4'0"	12½"	18"	8"	12 lbs.
No. 2	4'5"	14"	19½"	9¼"	44 lbs.
No. 3	4'8"	15"	21"	9½"	72 lbs.
No. 4	5'0"	16"	22½"	11"	85 lbs.
No. 5	5'3"	17"	24"	11"	90 lbs.
No. 6	5'9"	20"	23½"	12"	125 lbs.

COTTON TRUCKS.

	List.	Retail.
BALTIMORE No. 3.....	\$9.00	\$5.40
STORE TRUCK No. 4.....	11.00	6.63
No. 5.....	13.50	8.10

	Length Handles.	Width Nose.	Width at Upper Bar.	Diameter Wheels.	Weight.
No. 3	4'10"	15½"	21"	9½"	74 lbs.
No. 4	5' 0"	16"	23"	11"	101 lbs.
No. 5	5' 3"	18"	22"	10"	95 lbs.
No. 6	5' 9"	20"	23½"	12"	125 lbs.

Dimensions and Prices Cast-Iron Truck Wheels.

	Lbs. Wt.	Hgt. In.	Face In.	Hub In.	Bore In.	Retail Price	
						List.	Each.
No. 0.....	4½	6½	1½	2¼	3¼	\$0.54	\$0.35
Nos. 1 and 2	7½	8	2	2¾	3¼	.87	.69
No. 3.....	12¾	9½	2½	3¼	3½	1.52	1.00
Nos. 4 and 5	17½	11	3	3¾	1x1¼	2.10	1.50
Heavy	25	12	3	3¾	1x1¼	3.00	2.00

Plain Platform Truck

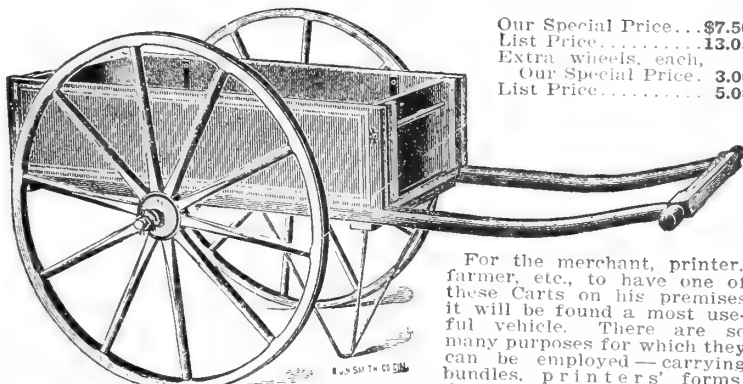


No.	Size of Platform.	Weight.	Diam. Wheels.	List.	Retail.
82—	2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	\$14.00	\$10.00
83—	2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	10.75
84—	3 ft. by 4 ft.	125 lbs.	8½ in.	17.00	12.00

Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.

Baltimore Push Cart



Our Special Price...\$7.50
List Price.....13.00
Extra wheels, each,
Our Special Price, 3.00
List Price.....5.00

For the merchant, printer, farmer, etc., to have one of these Carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these Carts, but notwithstanding we have placed the price low.

STORE TRUCKS

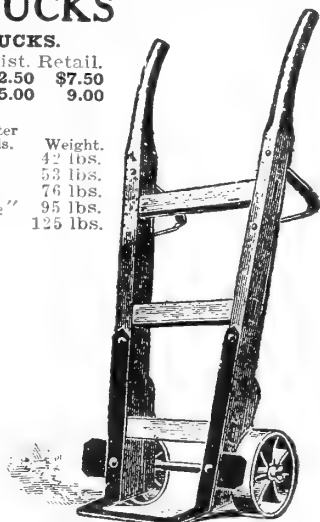
NEW YORK BARREL TRUCKS.

	List.	Retail.		List.	Retail.
No. 1...	\$7.00	\$4.25	No. 4...	\$12.50	\$7.50
No. 2...	9.00	5.40	No. 5...	15.00	9.00
No. 3...	10.50	6.30			

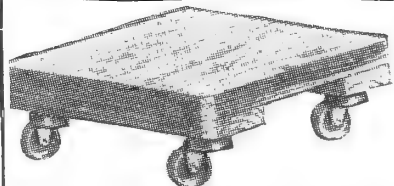
	Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight.
No. 1	4'0"	12"	17½"	7"	42 lbs.
No. 2	4'6"	14"	18½"	8"	53 lbs.
No. 3	4'7"	15"	20½"	9"	76 lbs.
No. 4	5'0"	16"	21½"	9½"	95 lbs.
No. 5	5'3"	18"	22"	10"	125 lbs.



COTTON TRUCK.



NEW YORK PATTERN.



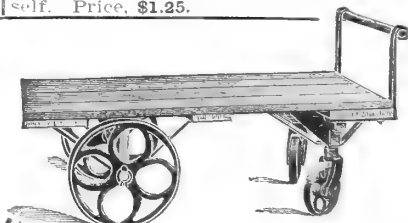
HANDY FOUR WHEEL TRUCK

For store use. It is indispensable for moving barrels, boxes, etc., about the store. It will soon pay for itself. Price, \$1.25.

Improved Four-Wheel Platform Truck

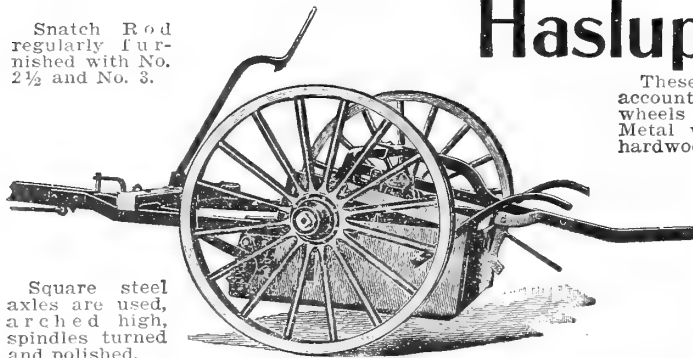
For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

	Size Platform.	Diam. Wheels.	Diam. Caster.	Weight.	List.	Retail.
No. 1—	2x4 ft.	12 in.	6 in.	120 lbs.	\$25.00	\$17.50
No. 21—	3x5 ft.	18 in.	9 in.	200 lbs.	35.25	25.00



Haslup Wheel Scrapers

Snatch Rod regularly furnished with No. 2½ and No. 3.



Square steel axles are used, arched high, spindles turned and polished.

These scrapers are very popular with the contractor trade on account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongues, best quality hardwood, heavily ironed, with double steel draft bars.

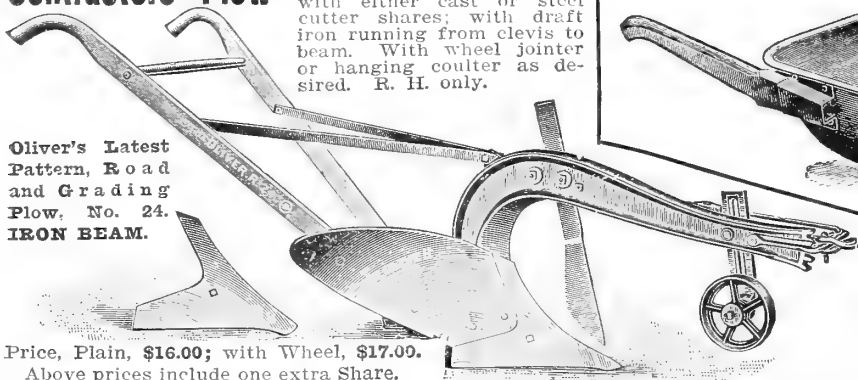
Size of Bowl.

Size.	Capacity.	Long.	Wide.	Deep.	Wheels.	Tire.	Axle.
No. 1	9 Cu. ft.	36"	36"	12"	36"	3x¼"	1½"
No. 2	13 Cu. ft.	37"	38"	13½"	40"	3x5-16"	1¾"
No. 2½	14½ Cu. ft.	41"	38"	14"	44"	3x5-16"	1¾"
No. 3	17 Cu. ft.	41"	41"	16"	44"	3x5-16"	1¾"
No. 1	—Weight, 450 lbs.						Price, \$32.50
No. 2	—Weight, 600 lbs.						Price, 41.00
No. 2	—With Snatch Rod.						Price, 42.50
No. 2½	—With Snatch Rod, weight, 675 lbs.						Price, 44.00
No. 3	—With Snatch Rod, weight, 750 lbs.						Price, 49.00
Wood Doubletrees and Neck Yoke, \$3.00 extra.							

The No. 24 Iron Beam, Right Hand Contractors' Plow

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. With wheel jointer or hanging coulter as desired. R. H. only.

Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.



Price, Plain, \$16.00; with Wheel, \$17.00.
Above prices include one extra Share.

Haslup Round

Back, Solid Pressed Drag Scraper



• PRICES WITH STEEL RUNNERS.

Size.	Capacity.	Weight.	Price.
No. 1	7 Cu. ft.	100 lbs.	\$5.75
No. 2	5 Cu. ft.	90 lbs.	5.50
No. 3	3½ Cu. ft.	80 lbs.	5.25

For extra Bottom Plate add 50c.

The best Drag Scrapers made on account of construction, weight and quality of material.

REPAIRS FOR CONTRACTORS' PLOWS, Price List on Page 39.

Contractors' Tubular Steel Double and Singletrees and Neck Yokes. See page 161.

Baltimore Contractors' Plow

No. 0—Right or Left Hand; two - horse; weight, 180 lbs., with extra bar share, \$20.00.

No. 1—Right or Left Hand; 2 to 4 horse; weight, 200 lbs., with extra bar share, \$22.50.

No. 2—Right or Left Hand; 4 to 6-horse; weight, 270 lbs., with extra bar share, \$25.00.

No. 0—Right or Left Hand Bar Share, 4.00

No. 1—Right or Left Hand Bar Share, 4.50

No. 2—Right or Left Hand Bar Share, 4.50

Syracuse Contractors' Plow No. 99

Four to Eight Horses. Weight, with Shoe, 310 lbs.

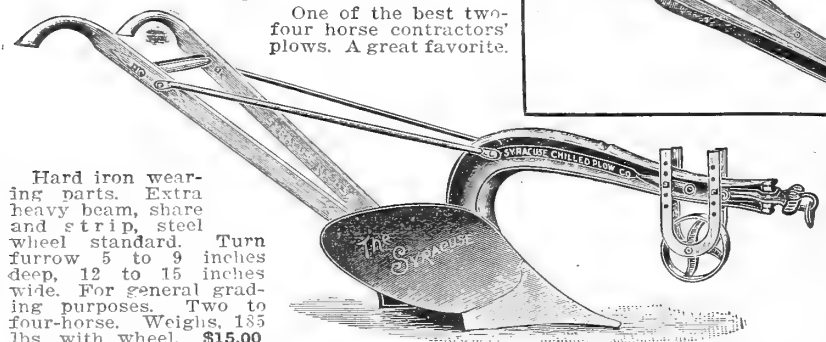
Without extra Share, \$35.00.



This plow for a long time has been very popular for road work or any severe grading. Above cut shows plow with steel truss beam, steel mouldboard and landside. Separate shin piece. Heavy over-laid wrought steel share. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Slight turning capacity. Suitable for severe grading purposes in shale or hard pan.

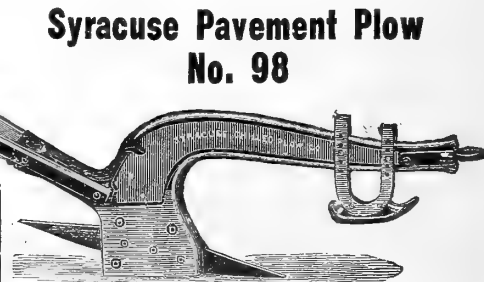
Syracuse Contractors' Plow No. 1

One of the best two-four horse contractors' plows. A great favorite.



Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four-horse. Weighs, 185 lbs. with wheel. \$15.00

Syracuse Pavement Plow No. 98



Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted for tearing cobblestones and macadam pavements. Four or six-horse. Weight, 265 lbs. Without extra point. Price, \$25.00.

UNCLASSIFIED GOODS

THE UTICA LAWN TRIMMER

Price, \$3.50.



Made of high quality steel. Cuts every blade of grass left by a lawn mower close to buildings, fences, shrubbery, trees, flower beds, etc. Does better work in one-third the time it would take with shears or grass hooks.

Can be used with one hand. Weighs only 12 pounds. Strong and well made. Knives keen edged with a 5-inch cut. Price, \$3.50.

"DIAMOND" LAWN EDGER AND TRIMMER

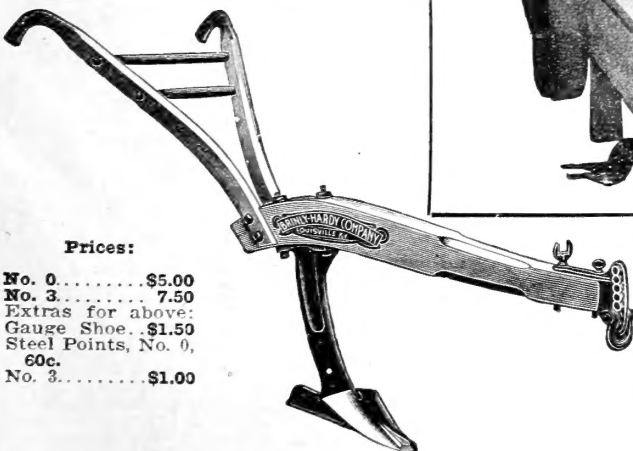


For trimming the edges of lawns along cement walks, driveways and gravel walks, and may also be used for outlining flower beds of various shapes, such as stars, circles, diamonds, crescents, etc. Price, \$2.00.

MEADOWS POWER WASHER AND WRINGER.

Something that will interest the wife of every farmer who has a gasoline engine.

This combination marks a very desirable light power laundry outfit. Extra tub and basket not included. No blue Monday where a Meadows Washer is used. Price, \$30.00.



Prices:

No. 0.....\$5.00
 No. 3.....7.50
 Extras for above:
 Gauge Shoe..\$1.50
 Steel Points, No. 0,
 60c.
 No. 3.....\$1.00

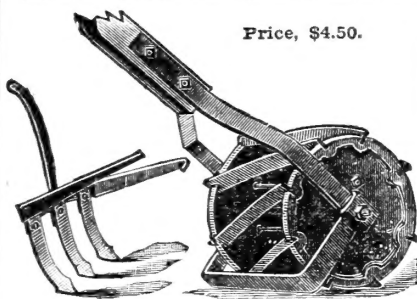
THE YPSILANTI UPRIGHT HAND BALING PRESS.

This is the best machine on the market for baling old paper, straw, broom corn, etc.

Every laundry, department store and factory where there is an accumulation of waste paper should have one of these machines. Price, f. o. b. Baltimore, \$55.00; f. o. b. Factory, \$50.00.

Barker Weeder and Mulcher

Price, \$4.50.



Operates on the plan of a lawn mower. It is better than a hoe. It is ten times as fast. It is easy to operate. It forms a dust mulch. Will cut your weeds in your garden. It cuts the weeds under the ground as well as the weeds out of the ground. It pulverizes the ground fine which holds the moisture to feed the plant.

The cultivator attachment is very useful when deeper cultivation is desired. The attachment is always ready for use. It does not have to be "put on" or "taken off." It is always on and ready. The tool has only to be turned over to be used as a weeder. Price, \$4.50.

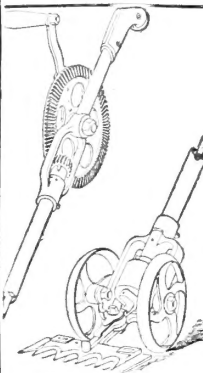
Little Giant Corn Cutter



Foot power or engine by attaching pulley. 30 to 40 bushels corn per hour. Cuts 1 1/2 in. to 2 in. long; weight 165 pounds; 125 revolutions per minute.

Price, \$12.00.

Barton Lawn Trimmer



Doing away with sickle and shears. No stooping down.

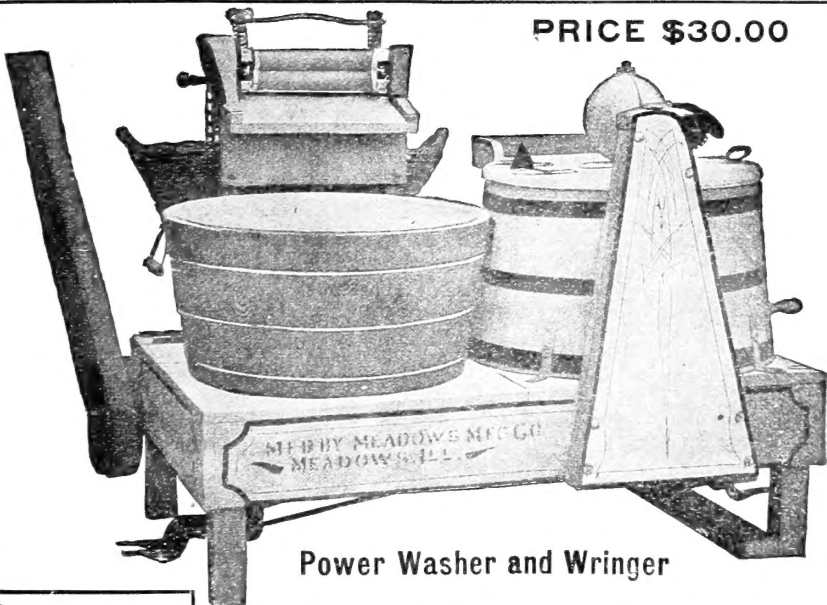
Can be worked around where the lawn mower cannot cut.

The machine is all ready for use.

You get full directions and an emery stone along with each machine, with which it is no trouble to keep it sharp.

Price, \$5.00.

PRICE \$30.00



Power Washer and Wringer

The Brinly Subsoil Steel Plows

These Plows are made of best material throughout. The malleable iron uprights are unbreakable.

The Mole-shaped Duck-Bill Steel Points make the Plows very light draft. No. 0 is a One-Horse Plow, and the No. 3 is a Two-Horse Plow. Weight, No. 0, 36 lbs.; No. 3, 52 lbs.

INDEX TO CATALOGUE

ALL PRICES IN THIS CATALOGUE SUBJECT TO CHANGE WITHOUT NOTICE.

Asparagus Roots..	1
Broom Corn.....	34
Cow Peas.....	34
Flax Seed.....	34
Flower Seeds.....	35-40
Forage and Silo	
Seeds.....	34
Grass Seeds.....	31, 32
Herbs.....	22
Kaffir Corn.....	34
Lawn and Golf	
Seeds.....	33
Madaira Vine Roots	50
Millet.....	34
Mushroom Spawn..	18
Plant Depart-	
ment.....	41-52
Rose Bushes.....	48, 49
Sunflower Seed....	34
Tube Roses.....	50
Vegetable Plants..	41
Vegetable Roots..	23
Vegetable Seeds..	1-30
White Clover.....	32, 33

IMPLEMENTS, VEHICLES, &c.

Antikol Hog Remedy.....	66
Aphine.....	66
Apple Parer.....	73
Aphis Pank.....	66
Aprons.....	149
Arsenate of Lead.....	53
Asparagus Buncher.....	53
Asparagus Knives.....	53, 54
Atomic Sulphur.....	64
Atomizers.....	56
Axes and Handles.....	145
Axle Washers.....	150
Axle Grease and Oils.....	155
Back Bands.....	152
Rag Balm.....	66
Baling Press.....	167
Baling Ties.....	121
Barn Door Hangers and	
Fixtures.....	123
Barrel Headers.....	117
Baskets.....	142
Basket Handles.....	125
Beef Scrap.....	68
Beef Scrap Hopper.....	72
Bells.....	112
Belting.....	118, 129
Belt Lacing.....	129
Berry Press.....	125
Binder and Repairs.....	118, 119
Black Leaf Tobacco Ex-	
tract.....	65, 66
Blacksmiths' Tools.....	133
Blocks, Tackle.....	103
Boiler and Feed Cooker.....	57, 63
Bolster Springs.....	151
Bolts.....	99, 143
Bone Cutters.....	69
Books.....	89
Bordeaux Arsenate Lead	
Mixture.....	64
Bordeaux Mixture.....	64
Brooders.....	71
Brooms, Stable.....	55
Brushes.....	143
Budding Knives.....	54
Bug Death.....	65
Buggies.....	154
Buggy Backs.....	151
Buggy Cushions.....	151
Buggy Seat, New Idea.....	149
Buggy Tops.....	151
Buggy Wheels.....	151
Butter Printers.....	78
Butter Requisites.....	78
Butter Worker.....	77
Bush and Brier Hooks.....	145
Bush Puller.....	142
Calf Feeder.....	76
Calf Weaners.....	76
Cane Stakes.....	55
Canning Boiler.....	73
Cant Hooks.....	130
Caponizing Tools.....	72
Carnation Supports.....	55
Carriages.....	154
Carriage Heaters.....	150
Carriage Poles.....	150
Carts, Farm.....	156
Cart, Push.....	93, 165
Chain Belting.....	118
Chains.....	152
Charcoal, Granulated.....	68
Check Rower Wire.....	104
Chick Feed.....	68
Chick Manna.....	68

Churns.....	77
Cider Mills.....	125
Cleavers.....	98
Clippers, Horse and Dog..	54
Clipping Machines and	
Extras.....	147
Cold Crusher.....	83
Cold Chisel.....	125
Collars, Horse.....	153
Condition Powder.....	66
Cookers, Feed.....	57, 63
Corn Barrels.....	142
Corn Cutter.....	167
Corn Crushers.....	129
Corn Grader.....	105
Corn Harvesters.....	106
Corn Hooks and Knives.....	145
Corn Husker.....	109
Corn Planter Attach-	
ment.....	108
Corn Planter Runners.....	105
Corn Planters.....	104, 105, 132
Corn Shellers.....	124
Cotters.....	119, 143
Cow-ease.....	77
Cowtail Holder.....	76
Cow Ties.....	152
Cradles, Grain.....	120
Creamer.....	78
Crowbars.....	142
Cultivators, Hand.....	91, 92, 142
Cultivators, Horse.....	107-111, 132
Cultivator Steels.....	111
Currycombs.....	148
Cutters, Feed.....	69, 126, 127
Cutter Repairs.....	126, 127
Daytons.....	154
Dehorner.....	142
Dibber.....	63
Disc Harrows.....	113
Disc Plows.....	97
Distributors, Fertilizer.....	102
Dock Cutter.....	142
Doubletrees and Clips.....	161
Drag Scrapers.....	166
Drills, Grain.....	101
Drill Points.....	101
Drill Tubes.....	101
Drills, Machinist.....	120
Drive Well Points.....	140
Drive Well Pumps.....	141
Dust Hood.....	143
Egg Producer.....	66
Egg Tester.....	70
Engines, Gasoline.....	134, 135
Equalizers.....	161
Fanning Mills.....	106
Farm Boiler.....	63
Farm and Contractors'	
Carts and Extras.....	156
Farmogerm.....	88
Feed Bags.....	147
Feed Cookers.....	57, 63
Feed Cutters.....	126, 127
Fence Wire.....	84-87
Fertilizer Distributors.....	102
Florist and Garden Sup-	
plies.....	55
Flower Bed Guard.....	83
Flower Pot Saucers.....	52
Fodder Yarn.....	122
Food Choppers.....	73
Forges.....	133
Forks.....	144
Fork Handles.....	142
Formaldehyde.....	64
Freezers.....	75
Fruit Drier.....	63
Fruit Picker.....	54
Fruit Press.....	73
Fumigators.....	66
Furrower and Marker.....	97

Grindstones.....	117
Grit.....	68
Grit and Shell Boxes.....	72
Grub Plow.....	95
Halters.....	143
Hames.....	152
Hame Chains.....	152
Hame Strings.....	152
Harness.....	152, 153
Harness Menders.....	143, 152
Harrow and Cultivator	
Combined.....	110
Harrow Teeth, Spike.....	111
Harrow Teeth, Spring.....	114
Harrow Tooth Points.....	114
Harrows.....	97, 113, 114, 115
Hatchets.....	145
Hay Forks.....	144
Hay Knives.....	120
Hay Loader.....	121
Hay Presses.....	121
Hay Racks.....	146
Hay Rakes.....	121
Hay Tools and Fixtures.....	122
Heaters, Carriage.....	159
Helibore.....	65
Hen-E-Ta Bone Grits.....	68
Hen Feed.....	68
Hen Nests.....	72
Hinges.....	141
Hitching Post.....	150
Hoes.....	53, 142, 145
Hog Cholera Remedy.....	66
Hog Scalders.....	63
Hoist, Gritco.....	103
Horse Clippers.....	147
Horse Collars.....	153
Horse Covers.....	149
Horse Muzzles.....	143
Horse Tonic.....	65
Horseradish Graters.....	73
Horseshoe Pads.....	148
Hose Mender.....	61
Hose, Rubber.....	58, 62
Hose Reels.....	62
Hotbed Mats.....	55
Hotbed Sash.....	55
Hover.....	70
Husker, Corn.....	106
Ice Chest.....	74
Ice Cream Freezers.....	75
Ice Hooks.....	142
Incubators.....	70, 71
Incubator Extras.....	70
Insecticides.....	64, 65, 66
Iron Sulphate.....	64
Jacks.....	151, 155
Jacks, Scaffolding.....	162
Kil-O-Seal.....	64
Kil-Weed.....	65
Kil-Worm.....	65
Kow-Kure.....	67
Krout Cutters.....	73
Kur-Roup.....	67
Ladders.....	162, 163
Ladder Brackets.....	163
Ladder Hook.....	162
Land Rollers.....	83
Lanterns.....	147
Lard and Fruit Presses.....	73
Lawn Boots.....	81
Lawn Mowers.....	80, 81
Lawn Settees.....	82
Lawn Sprinklers.....	62
Lawn and Street Sprink-	
ler.....	93
Lawn Swings.....	82
Lawn Trimmers.....	33, 167
Leaf Rack Attachments.....	93
Leg Bands.....	72
Leggins.....	149
Lemon Oil.....	65
Lice Powder.....	67
Lime and Ash Spreader.....	102
Lime Sulphur.....	64
Link Chain Belting.....	118
Locks.....	148

Milk Cooler.....	76
Milk Pails.....	76
Milk Strainer.....	76
Milk Tester.....	75
Milking Tubes.....	75
Mills, Hand.....	69
Mills, Power.....	128, 129
Mole Traps.....	53
Moss, Sphagnum.....	55
Mowers, Field.....	118
Mowers, Lawn.....	80, 81
Mower Repairs, Field.....	118, 119
Neck Yokes.....	161
Nest Eggs.....	72
Nico-Fume.....	66
Nikoteen.....	66
Nicotide.....	66
Nipples, Galvanized.....	136
Nozzles.....	61, 62
Oats Cleaner.....	146
Oilers.....	131
Oils.....	155
Open Rings.....	161
Oyster Shells.....	68
Painters' Cripple.....	163
Paris Green.....	64
Pea and Fertilizer Drill.....	102
Peavies.....	130
Plaster Sifter.....	56
Picks and Handles.....	145
Pipe Fittings.....	136
Plant Bed Cloth.....	109
Plant Setter.....	59
Plant Sprinklers.....	59
Plant Tubs.....	52
Plow Bolts.....	99
Plow Handles.....	98
Plows, Contractors.....	166
Plows and Repairs.....	91, 92, 94-99
Plows, Subsoil.....	95, 167
Porch Chair.....	82
Post Hole Diggers.....	142
Pot and Tree Labels.....	55
Potato Cutter.....	116, 155
Potato Digger Attach-	
ment.....	116
Potato Diggers.....	96, 116
Potato Hooks.....	145
Potato Planters.....	116
Potato Sprayer.....	60
Poultry Feeds.....	68
Poultry Fountains.....	72
Poultry Knives.....	72
Poultry Markers.....	72
Poultry Remedies.....	66, 67
Poultry Troughs.....	72, 146
Poultry Wire.....	85
Powder Duster.....	56
Powder Guns.....	56
Pruning Saws and	
Knives.....	54
Pulverizers.....	83
Pump Cylinders.....	139
Pump Extras, Well.....	136-141
Pump Jacks.....	134
Pump Leathers.....	140, 141
Pumps, Well.....	138-141
Punches.....	143
Push Cart.....	93, 165
Rack, Hay.....	146
Raffia.....	55
Rake Handles.....	142
Rakes, Hand.....	141
Rakes, Horse.....	121
Rake Teeth.....	118, 121
Rats and Mice Destroyer.....	157
Refrigerators.....	74
Repair Links.....	161
Road Carts.....	155
Roller and Leveler.....	83
Rollers, Land.....	83
Rolling Stands.....	52
Roof Coating.....	88
Roofing Paint.....	88
Roofing Paper.....	88
Root Cutters.....	72
Rope.....	122
Roup Pills.....	66
Roup Marker.....	91
Rubber Hose.....	58, 62

Seed Drills.....	90, 92
Seed Sowers.....	109
Separator Boiler.....	63
Separator Oil.....	74
Separators.....	74, 75
Settees, Lawn.....	82
Sewing Machines.....	79
Shafts, Buggy.....	150
Shaft Couplers.....	150
Shearing Knife Grinder.....	147
Shears, Hedge and Lawn.....	54
Shears, Sheep and Horse.....	54
Shellers, Corn.....	124
Shovels.....	145
Shovel Handles.....	142
Shovel Plows.....	112
Shovel Plow Handles.....	112
Shovel Plow Steels.....	112
Sickle Grinder.....	117
Silkline.....	55
Singletrees.....	161
Skins, Wagon.....	160
Slug Shot.....	65
Smoothing Harrow.....	97
Snaths.....	120
So-bos-so.....	77, 149
Sod Cutter.....	159
Soluble Oil.....	64
Spades.....	145
Spray Pumps.....	56-60
Spray Pump Accessories.....	61
Spray Pump Repairs.....	61
Spraying Solutions.....	64
Spraying Table.....	59
Spraying Tanks.....	59
Sprinklers, Lawn.....	62
Sprinklers, Plant.....	55
Sprinkler, Street.....	93
Stalk Cutter.....	106
Stall Guards.....	146
Stanchions.....	145
Stock Food.....	68
Storm Aprons.....	149
Storm Fronts.....	149
Stone Crushers.....	133
Storage Tanks.....	135
Store Trucks.....	165
Stump Pullers.....	133
Suburban Water Outfits.....	136
Sulphur.....	64
Sulpho-Tobacco Soap.....	65
Sweat Pads.....	152
Swings.....	82
Syringes, Garden.....	55
Tanks, Storage.....	135
Tedder Forks.....	118, 121
Tedders.....	121
Thermometers.....	53, 70, 77
Third seat, New Idea.....	149
Thy-Cresol.....	66
Tobacco Dust.....	65
Tobacco Stems.....	65
Trace Chains.....	152
Trace Holder.....	155
Transplanting Machines.....	109
Trash Consumer.....	85
Tree Guards.....	85
Tree Pruners.....	54
Tree Tanglefoot.....	85
Trellis.....	163
Trestles.....	163
Troughs.....	72, 146
Trucks, Farm.....	158, 159
Trucks, Hand.....	159, 165
Truck Wheels.....	158, 159
Turf Edger.....	142
Vases.....	52
Veterinary Remedies.....	67
Wagon, Goat.....	157
Wagon Jacks.....	151
Wagons and Extras.....	155-160
Wagon Skins.....	160
Washers, Axle.....	150
Washing Machines.....	79, 167
Water Supply Outfits.....	137
Water Trucks.....	57
Water Truck and Comb.....	93
Watering Pots.....	55
Weeders, Hand.....	53, 120, 167
Weeders, Horse.....	107
Whale Oil Soap.....	64
Wheelbarrows and Extras.....	164, 165
Whiffletrees and Clips.....	161
Whips.....	155
Whitewash Brushes.....	148
Windmills and Towers.....	136
Wire Cloth.....	85
Wire Fence.....	84-87
Wire Stretchers.....	85
Wrenches.....	143
Wringers.....	79

FERTILIZERS FOR THE FARM, LAWN and GARDEN.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid, or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Animal Bone Phosphate.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, \$22.50 per ton.
" \$ 2.50 " Bag.

Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price, \$22.50 per ton.
" \$ 2.00 " Bag.

Ammoniated Butchers' Bone Phosphate.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, \$22.50 per ton.
" \$ 2.00 " Bag.

Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

Price, \$28.00 per ton.
" \$ 2.50 " Bag.

Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition.

ARSENATE OF LEAD

Is better than Paris Green, Green Arsenoid, Arsenite of Lime or Arsenite of Soda for the following reasons:

1. It sticks after being sprayed, even heavy rains closely following the spraying do not wash it off.
2. It will not scald the buds, thus enabling its use at a sufficient strength to insure results.
3. It gives from one-third to one-half more benefit than all other forms of arsenicals.

The chief disadvantages of Paris Green, Green Arsenoid, Arsenite of Lime and Arsenite of Soda are that:

1. It cannot be used at sufficient strength to give good results on account of its caustic nature.
2. It is washed off by the first heavy rains compelling re-spraying.

DIRECTIONS for using ARSENATE OF LEAD:—On Apple and Pear trees use from 3 to 3½ lbs. to 50 gals. of water; on Peach, 2 lbs. to 50 gals. of water.

To prepare for use take the desired quantity of Arsenate of Lead and add enough water to make a thin paste, then add it to the volume of water, we suggest filling the spray barrel two-thirds full of water, then add the Arsenate of Lead first thinned with water, then fill the spray barrel. This will thoroughly mix the whole lot. For spraying Arsenate of Lead there should be an agitator on the pump in order to keep it in good suspension.

Spray Apple and Pear trees to prevent CODLING MOTH within ten days after the petals of the blossoms fall in order to lodge the poison in the calyx before it closes. Bordeaux Mixture can be combined with Arsenate of Lead at this time, although on apples that do not scab badly such as Ben Davis, York Imperial and Newtown Pippins, it may be better to omit the Bordeaux spraying at this time. On apples that do scab badly such as Winesaps, Smith Cider, Roman Beauty and Black Twigs, however, it would be better to combine the Bordeaux with the Arsenate of Lead. The Arsenate of Lead should be thinned with water as above, then added to the Bordeaux, in the same manner as where ordinary water is used.
For prices &c., see Catalogue.

Farmers wishing a fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time.

Price, \$27.00 per ton.
" \$ 2.50 " Bag.

Blood, Bone and Potash Mixture ANALYSIS 5-8-7.

Special High Grade Trucking Fertilizer. Extensively used by the leading truckers of Baltimore and Anne Arundel Counties with great success.

Price \$36.00 per ton. \$3.50 per bag.

Special Potato Fertilizer

Made especially for potatoes, running high in POTASH and containing Ammonia and Available Phosphoric Acid in proper proportions for good results on this crop.

Price \$25.00 per ton. \$2.25 per bag.

Tobacco Bed Fertilizer.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

\$4.00 per bag \$45.00 per ton.

Special Mixture.

A new brand introduced by us this year; a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price \$18.00 per ton
" \$ 1.65 " Bag.

Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

High Grade Acid Phosphate.

Kainit, Muriate of Potash.

Nitrate of Soda.

Fine Ground Fish.

Ground Tankage.

Prices on application.

Land Plaster

In bags 200 lbs. each.
\$1.00 per bag \$9.00 per ton

Pulverized Sheep Manure.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequalled.

5 lbs. 25c; 10 lbs. 40c; 30 lbs. \$1.00.
50 lbs. \$1.25 100 lbs. \$2.00.

Special prices in tons, ½ tons, or carload.

Bone Flour.

Made especially for Florists and Gardeners. This flour is passed through a 30-mesh screen and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price \$4.00 per bag of 167 pounds.

Soft Ground Bone.

In packages,
5 lbs. 25c; 10 lbs. 40c;

AGRICULTURAL HYDRATED LIME

PRICES ON APPLICATION

Agricultural Hydrated Lime is guaranteed to be 98 to 97 % pure. Prof. Fippin of Cornell University says: "That for fertilizer 60 lbs. Hydrated Lime produces same results as 100 lbs. of Air Slaked or 250 lbs. of Ground Rock Lime."

85 % Hydrated Lime will pass through a 200 mesh screen.

Hydrated Lime is the strongest rectifier of impure soils and produces greatest results.

Hydrated Lime is best for drilling. Every impurity is taken out of AGRICULTURAL HYDRATED LIME. There is no core.

Hydrated Lime makes clay soils less likely to bake; easier to work and more porous. On sandy soils the opposite is true, it holds large particles together, thus retaining moisture longer.

Hydrated Lime is best for sweetening soils in the preparation for application of FARMOGNER (See page 63), because it makes the soil alkaline, which promotes the growth of beneficial bacteria, especially those that convert valueless soil compounds into plant food. Any lime that does not show the following analysis is not good for agricultural purposes: Silica 1.89 %, Iron Oxide and Alumina 0.35 %, Lime 96.88 %, Magnesia 0.86 %.

For Lawn Tennis Courts.—Hydrate will be found convenient and economical for marking lawn tennis courts.

BORDEAUX MIXTURE

FORMULÆ AND DIRECTIONS:

We recommend the following:

	For Apple and Pear Trees.	For Peach Trees.
Blue Stone (Copper Sulphate)	6 lbs.	4 lbs.
Lime	4 lbs.	4 lbs.
Water	50 gals.	50 gals.

Care should be taken that the Copper Sulphate is neutral.

The solution of Copper Sulphate and Milk of Lime should be diluted separately, and then both should be run simultaneously into a third tank or tub.

HARDWOOD ASHES, UNLEACHED.

Most excellent for Lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. These ashes are in proper condition for immediate use. Apply at rate of 1000 to 1500 pounds per acre.

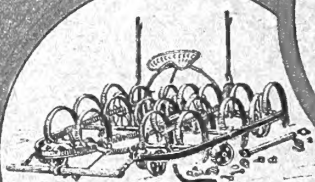
Price, 100 pounds, \$1.50. Barrel, \$2.50. Ton, \$18.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

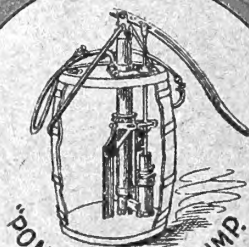
GRIFFITH & TURNER CO.

FARM AND GARDEN SUPPLIES

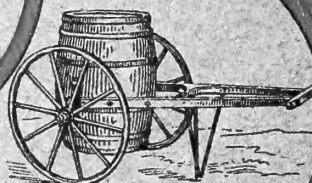
BALTIMORE.



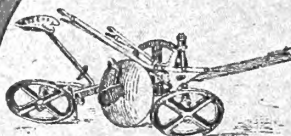
HENCH & DROMGOLD'S
LEVER HARROW.



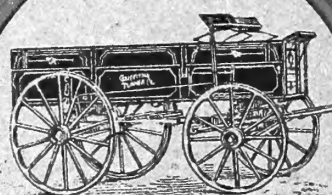
"POMONA" SPRAY PUMP.



WATER CART.



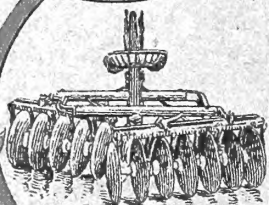
CHATTANOOGA-HANCOCK
DISK PLOW.



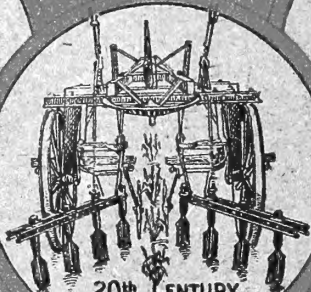
GRIFFITH & TURNER
STUDEBAKER,
SCHUTTLE
AND
BROWN.



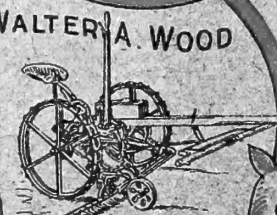
GENUINE OLIVER
CHILLED PLOW.



BELL'S CENTER-CUT
DISK HARROW.



20th CENTURY
CULTIVATOR.



WALTER A. WOOD

STEEL MOWER.

HEN-E-TA
BONE GRITS

ABOUT 30% PURE
BONE ASH

NO OTHER | NO OTHER
BONE NEEDED | GRIT NEEDED

GRIFFITH & TURNER CO.
GENERAL AGENTS
BALTIMORE - MD.

GRIFFITH
AND
TURNER CO'S
ANIMAL
BONE
PHOSPHATE

KIL-O-SCALE

THE GREAT SAN-JOSE SCALE DESTROYER.